

University News

A FORTNIGHTLY CHRONICLE OF HIGHER EDUCATION & RESEARCH MAY 1, 1979



Shri K. R. Narayanan, Vice-Chancellor, Jawaharlal Nehru University, Dr. Sarup Singh, M.P. and Prof. M.V. Mathur, Director, National Staff College for Educational Planners & Administrators at the inaugural session of the National Conference of Academic Librarians held recently in New Delhi.

**S. N. D. T. WOMEN'S UNIVERSITY
1, NATHIBAI THACKERSEY ROAD, BOMBAY 400020**

Applications are invited on prescribed forms available from the University Office on payment of Rs. 5/- (by M.O. or cash) for the following posts to be filled in at the S. N. D. T. Arts & Commerce College for Women, Bombay, so as to reach the undersigned before **May 21, 1979**.

A. Post-Graduate Departments	Medium	No. of posts
READER IN (1) Economics (2) Music and (3) Art & Painting	Marathi/Gujarati	One post for each subject
B. College level LECTURER IN 1. Economics 2. History 3. Sociology 4. Commerce	(a) Gujarati (b) Gujarati/Marathi (a) Gujarati (b) Marathi (with Politics) (a) Gujarati (b) Marathi English	Two posts Two posts Two posts One post
C. TUTOR IN Instrumental Music	Marathi/Gujarati	One post

Qualifications

Reader : Good academic record at Bachelor's & Master's level in the subject concerned, namely first or high second class, with a doctoral degree or equivalent published work in the subject concerned. Evidence of being actively engaged in (i) research or (ii) innovation in teaching methods or (iii) production of teaching materials. 5 years' experience and/or research provided that at least 3 of these years were as lecturer or in an equivalent position. This condition may be relaxed in the case of candidates with outstanding research work.

Candidates with the following qualifications may also apply for the posts mentioned below.

1. Reader in Art & Painting: Diploma in Fine Arts with Art Master's Certificate of Government of Maharashtra (formerly of Bombay State) in first or second class at both examinations. Experience of teaching drawing and painting in a Government recognised Institution of Art for a period of at least 7 years. Some research work to the credit in the subject of Art & Painting.

2. Reader in Music: Sangeet Alankar in first or second class and Sangeet Praveen or Sangeet Acharya (by thesis) from Akhil Bharatiya Gandharva Mahavidyalaya Mandal, Bombay.

OR

Sangeet Nipun in first or second class and Sangeet Acharya of Bhatkhande Sangeet Vidyapeeth, Lucknow.

5 years' experience and/or research provided that at least 3 of these years were as lecturer or in an equivalent position. This condition may be relaxed in the case of a reputed musicologist and performer.

LECTURER

(a) Consistently good academic record with at least first or high second class at the Master's and Bachelor's level in the subject concerned or an equivalent degree of a foreign University; and

(b) An M.Phil degree or a recognised degree beyond the Master's level or

published work indicating the capacity of a candidate for independent research work.

Notes

(1) Provided that if the Selection Committee is of the view that the research work of a candidate as evident either from his/her thesis or from his/her published work is of very high standard, it may relax any of the qualifications prescribed in (a) above.

(2) Provided further that if a candidate possessing the qualifications at (b) above is not available or not considered suitable the college, on the recommendation of the Selection Committee may appoint a person possessing a consistently good academic record on the condition that he/she will have to obtain an M.Phil. degree or a recognised degree beyond the Master's level within five years of his/her appointment, failing which he/she will not be able to earn future increment until he/she obtains that degree or gives evidence of equivalent published work of high standard.

Tutor in Instrumental Music : Matriculation or equivalent qualification but reputed as a performer in the field of music or holding a diploma or a degree (Sangeet Visharad) in Music of any Music Institution recognised for the purpose.

Salary Scales

READER : Rs. 1200-50-1300-60-1900 plus admissible allowances (Total initial emoluments about Rs. 1700/- per month)

LECTURER : Rs. 700-40-1100-50-1300-Assement-50-1600 plus admissible allowances (Total initial emoluments about Rs. 1100/- per month)

TUTOR : Rs. 500-20-700-25-900 plus admissible allowances (Total initial emoluments about Rs. 800/- per month)

Notes

(a) Only suitable candidates will be called for interview.

(b) Other things being equal, preference will be given to candidates from Scheduled Castes/Scheduled Tribes/Other Backward Communities.

(c) Higher starting salary may be considered in exceptional cases.

(Smt.) Kamalini H. Bhansali
REGISTRAR

SAMBALPUR UNIVERSITY

JYOTI VIHAR : BURLA

Advertisement No. 10728/TDS.

Dated. 11.4.79

Applications in the prescribed forms are invited for the following teaching post in the University Post-Graduate Departments at Jyoti Vihar, Burla.

I. Lecturer—One in Oriya

II. Scale of Pay
Lecturer—Rs. 700-40-1100-50-1600/-

III. All the posts carry usual dearness allowance and C.P.F.-cum-gratuity benefits as would be determined by the University from time to time.

IV. The age of retirement is sixty years.

V. Qualification

LECTURER

(i) A consistently good academic record with first or high second class Master's Degree in the relevant subject or Equivalent foreign Degree with grade B+ or 55% of marks.

(ii) A Doctorate Degree of Published work of equally high standard.

In case a suitable candidate possessing a Doctorate Degree or equivalent published work is not available, a person possessing a consistently good academic record (due weightage being given to M.Phil or equivalent degree or research work of quality) may be appointed on the condition that he will have to obtain a Doctorate Degree. Produce evidence of published work of equivalent high standard within 5 years of his appointment failing which he will not be able to earn future increments until he fulfils this requirement.

Seven copies of the application forms will be supplied from the University Office to each candidate in person on cash payment of Rs. 10/- (Rupees ten) only. Candidates intending to receive forms by post are required to send (a) Crossed Postal Order of Rs. 10/- payable to the Finance Officer, Sambalpur University, Jyoti Vihar, Burla (b) a self addressed envelope (23cm x 10cm) with postage stamps worth Rs. 3.30 p affixed to it with the words 'APPLICATION FORM FOR TEACHING POSTS IN SAMBALPUR UNIVERSITY' super-scribed on it. Money Order/Cheque will not be entertained.

The last date of receipt of applications in the Office of the University at Jyoti Vihar, Burla, Sambalpur (Orissa) is 9.5.79. The candidates will be required to appear for an interview before a Selection Committee at their own expenses.

Issue of this advertisement does not make it binding on the University to make the appointment.

All communications should be addressed to the Registrar by designation only.

REGISTRAR

UNIVERSITY NEWS

Vol. XVII MAY 1
No. 9 1979

A Fortnightly Chronicle of Higher Education Price 80 Paise

IN THIS ISSUE

Role of Higher Education in the Process of Development and Change 238

Internal Management of Universities—BITS Experience 239

Convocations

PM addresses the Convocation of NEHU 242

IIT Kanpur Convocation 242

Campus News

Patna Varsity development programmes 243

PAU research on solar energy 243

Role of teachers 244

IARI research on high yielding varieties 244

Guhati Varsity development programmes 245

Plan for Varsity at Mangalore 245

Conference of Academic Librarians 246

JNTU introduces four-year B Tech Course 246

Allocations for higher education 247

Theses of the Month 248

Classified Advertisements 250

Opinions expressed in the articles and reviews are individual and do not necessarily reflect the policies of the Association

Hony. Editor : ANJNI KUMAR

Convocation sans Degrees-Diplomas

Contributed by Shri I.J. Patel, Vice-Chancellor,
Gujarat Agricultural University

A unique convocation was organised in Ahmedabad in the second week of April 1979 for seventeen young people after completion of their seven years' non-formal graduation course. The institution that imparted this education and arranged their first convocation in *Bhav-Nirzar* (भाव निर्झर) on Jodhpur Tekra just opposite the Satellite Television Experiment Station and S.A.C. at Ahmedabad. No degrees or diplomas were presented. No dignitaries were invited for the convocation address. The young dikhadharis (दीक्षाधारी) were advised by their Gurū, the founder and the soul behind the institution, Shri Pandurang Athvale Shastri to follow the path of God and religion, to be diligent farmers, honest citizens as well as loving neighbours in their villages and transfer silently the message of the Bhagwadgita to the masses and keep the torch of Indian civilization alight.

These young people were chosen from farmers' families in Kutch, Saurashtra and other areas for a seven years' course after primary. They were given to understand, when selected, that after this education, they will go back to their villages, to their parents' profession of farming and as enlightened farmers devoted to God and religion will work as torch-bearers of learning, wisdom and goodwill for mankind. They were to pay no fees. Everything was provided through God's magnificence. The subjects taught were English, Sanskrit, Hindi and Agriculture. On the sprawling farm of the institution, the boys had to work for 2½ hours everyday and learn all operations of agricultural pre-harvest, mid-harvest and post-harvest technology. Learned professors and scholars were invited to teach them or, to put it better, bring home to them the beauties of Shakespeare and Shelley, Kalidas and Bhavbhuti, Gita and Upanishads, Ramayana and Mahabharat, Prem Chand and Tulsidas, Mira and Nursey Mehta. A broad based understanding of the latest in science and technology was also provided to them through informal talks, discussions and lectures. They were exposed to the modern world while at the same time being critically aware of the rich Indian heritage and culture.

We talk of delinking degrees and diplomas with employment. Here is an example where education is for the sake of education, knowledge or *vidya* for the sake of *vidya* itself. No other expectations are aroused or nurtured. You get your education to be a happy village farmer and make your neighbours also happy. We talk of stalling the migration of educated young from the rural to the urban areas. Here is a positive programme of action of planting young people back in their own soil where they had their own roots. As sons of the soil, they are enjoined to work for the soil and its uplift. The base is devotion, faith in God and an unswerving confidence in self-reliance.

The convocation was attended literally by thousands—seven, eight thousand *swadhyayis* (स्वाध्यायी) each day. These *swadhyayis* do not expect anything from the institution by way of lodging, boarding or travel. The very basis of the Swadhyaya Mandal is that each one looks after himself-herself. They bring their own food, make their own arrangement for lodging and travel. Even when they have their periodical *milans* (मिलन)—meeting, this is the system followed so that no expensive arrangements are needed.

The Swadhyaya Mandal founded by Shastriji has several thousand members. Each *swadhyayi* is expected to devote a month in a

(Continued on page 247)

Role of Higher Education in the Process of Development and Change

M. R. Apparow*

Higher Education is in the process of change and it needs a new direction. The Academic community should play a more leading role in the process of development and planning. They should exert sufficient pressure through a philosophy of service and extension in the community around and show models of developments to others.

In all developing countries the fruits of knowledge, research and new skills have yet to reach millions of people who need it, who will be profited by it and whose contribution to the productive apparatus is immense. In this age of highly advanced science and technology, we are talking of appropriate technology for the rural areas, so that they are not deprived of the where-withall of their existence by the mighty currents of sophisticated production techniques. Appropriate technology is a means to promote individual and community self-reliance through a swadeshi movement.

Not only in this country but in all other developing countries the cities and the urban areas have gained prominence all these days and derived the advantages of the two decades of development initiated by the United Nations and other International agencies. Now we have changed our outlook and we are seriously thinking of Rural Development which will arrest the culture of too much urbanisation and its attendant evils. So all national governments in Asia, Africa and South America are concerned with the welfare of the common man through various means including changes in the traditional systems of Formal Education, which includes Higher Education also. We should create innovative learning systems, within the goals of rural development system, which can extend the benefits of knowledge and modern skills to the nook and corner of rural areas in various parts of the country.

As the U.G.C. Pamphlet "A Policy Frame for Development of Higher Education in India" points out, "If the University system has to discharge adequately its responsibilities to the entire educational system and to the society as a whole, it must assume extension as the third important responsibility and give it the same status as research and teaching". All Universities and colleges should develop close relationships of mutual services and support with their local communities.

In order to discharge its responsibility to the education system and to the society as a whole, the University and colleges must assume adult education and extension as an important responsibility and give it the same status as teaching and research.

These should be made an integral part of the objectives and functions of the university/college.

It is important to establish an organic link between adult education/extension and university curricula. The former should not be looked upon merely as a welfare activity for the deprived social groups, but as a process of interaction with the society leading to valuable learning experience and as a means for making higher education relevant to the needs of the society and oriented towards a solution of existing problems. Without such interaction on a continuing basis, the Universities will remain isolated from the society and their programmes out of tune with the reality around them."

The younger generation is to be put on the new path and the illiterate villagers in the rural areas should be liberated from their age old customs and habits. The age group 15-35 is best for reconstruction phase as they are the target groups which face the difficulties for a variety of reasons. The reasons as we know are socio-political and economic nature. We in Andhra University conducted a few experiments in regard to Non-Formal Education and extension in rural communities.

The Department of Adult and Continuing Education, Andhra University, Waltair has organised a training camp for 50 participants who comprise 12 instructors 30 neo-literates from 14 villages in Anandapuram. This was organised in February 1979 with the cooperation of District Medical and Health Department, Regional Health and Family Welfare Training Centre, Seethammadara and Primary Health Centre at Revidi and Field Publicity Department. This camp is unique and novel in the sense that not only lectures were given but practical work like construction of sanitary pits were undertaken in Palavalasa Village where filariasis was reported. Useful films on Sanitation, Adult Education, Family Welfare and baby care were shown. A baby show and also health examination was conducted and medicines were distributed to 50 sick children in the age group of 0-5 years.

The following items in regard to health awareness were taught and some were practised to have a demonstration effect.

1. Environmental Sanitation.
2. Personal Hygiene.
3. Common Health Problems in that area and district.
4. Health Services.
5. Relevant Health Laws.
6. MCH Services.

(Continued on page 241)

*Vice-Chancellor, Andhra University, Waltair.

Internal Management of Universities —BITS Experience

T. S. K. V. Iyer*

Change and innovation are the *raison d'être* of a dynamic organisation. To sustain innovations the management of such organisation must have the capacity for quick adaptation. This article deals with some innovations introduced at BITS with particular reference to how they are managed and how the processes of operation evolved. To keep within limits of space available, only a few innovations have been selected and the emphasis is on the management—the experience, and the process of operation, BITS has realised that while concepts are important it is only through operation that an organisation learns and in this process new ideas get thrown up.

Planning for changes through participation

Examination Reform in the universities has been held out as the innovation that is most important for keeping the universities dynamic. BITS like all other universities had the same view. In 1964, when BITS came into being, the faculty who already had an experience of the external examination system as they were in affiliated colleges voluntarily agreed to have internal evaluation. For the next five years the examination results were declared based upon continuous evaluation by the teacher and the cumulated percentage of marks. A letter grade was also given on a rigid percentage basis, the latter being done at the Registrar's Office. These letter grades therefore were only pseudo letter grades. Thus 'excellent' students in English could get a 'C' grade while 'excellent' students in Mathematics could get an 'A' grade. Therefore in 1970 quality letter grading and the unit system were fully introduced. It was the responsibility of the teacher who taught a course to turn in grades at the end of the semester, based on the marks obtained by continuous evaluation. Before introducing the qualitative letter grading, opinion from all the departments were sought in regard to their views, the problems they foresee and also suggestions regarding implementation. These were sorted out by Curriculum committee which was already existing. Extensive discussions took place among the faculty in various workshops and seminars regarding the process of grading. It was the desire of the faculty that a guideline should be prepared for teachers. These guidelines were actually a follow up of the regulations which were passed by the Senate when the letter grading system was introduced. Involvement of the students in the discussion process naturally emphasized the credibility angle and one of

the most important steps taken to ensure this credibility was the decision to show the valued answer books soon after a test to the concerned students and discuss the marks awarded. It is worth noting in passing that these regulations became operative not only for students who joined thereafter but also for those who were already in the Institute. For purposes of bringing the ongoing students into the mainstream, a conversion to CGPA of the marks obtained upto that point of time was necessary. Discussions with faculty and students and a write up in the student press preceded the finalisation of the procedure. Involvement of all groups intimately concerned with the operation of the university brought about a general satisfaction.

Involvement of faculty and students at the formulation stage resulted in active interest in the implementation,

Feedback and pragmatic modifications

With the experience in the next three years (1970-73) of operating the internal evaluation system many new ideas came up. Frankly this was the period of ferment. Some of the ideas were in a forward direction while some were not so. It also became necessary to have detailed discussion with the students regarding the operation.

Some of the resulting modifications are now presented. One such was related to the cumulative aspect of CGPA (Cumulative Grade Point Average). When a student repeats a course, the grade he received is cumulated with the grade he had received the first time. Some students demanded that the latter grade should replace the grade obtained the first time. Others felt that it was a concession to students who were after all repeating the course. BITS soon became wise enough to realise that this fine detail was not worth fighting. Thus the substitution of the first grade by the new grade when a student repeats a course was introduced in 1974. BITS which had boldly introduced the quality letter grading system in 1970 was now wise enough to accept this modification. This example is mentioned to highlight the need for flexibility in the attitude of an innovator when experience indicates a need to modify his initial concepts. Thought and action should have a correspondence.

A follow up in management was the setting up of 'the grading review committee' which consisted of both students and faculty. Report of this committee is available as an internal document. The committee strongly recommended a variety in the nature of the various tests to bring out different

*Deputy Director, BITS, Pilani.

capabilities of students. The other suggestion which was sincerely and seriously considered and rejected by the committee was the award of letter grades for each test. Regarding variety in tests suggestions made were short time quizzes, open book test, term paper etc. Much time is consumed in policing the examinations and setting up committees to examine mal-practices. This is easily obviated if the open book system is followed. With the experience gathered in these areas, the guidelines teachers were suitably updated to incorporate the suggestions of a number of teachers. Some of these were introduced as directions in the academic regulations.

Directions and control

It is relevant at this stage to indicate additional checks and balances which came to be built into the system. One is the handout given by the teacher to his students for the course in the beginning of the semester where he declares the different types of tests, their dates, weightage, in addition to the coverage of the programme. The second is the facility given to a student to apply to the examination committee for scrutiny of grade awarded to him in a course or any detail thereof. The third is a redefining of the role of the examination committee. By the statutes BITS, of the examination committee declares the 'examination' results. In the internal evaluation system the role was suitably redefined by which the Examination Committee is provided with the teacher's analysis of the distribution of grades in a course. Statistical information is also obtained through the computer about the past performance in terms of number of students in various ranges of CGPA of the students taking the concerned course. With the Statistical data on the past performance and assuming that the students are not deviating too much in their studies—a quick comparison of the grade distribution is made for the concerned course and the results declared. Any serious deviations are noted down for later interaction with the concerned teacher who could exchange his own experience of what happened in a particular semester in that course. In the matter of applications for scrutiny by the students, information is sought by the examination committee from the student concerned and from the teacher of that course. The role of the Examination Committee is to ensure that there has been fair play in the matter. While the decision of the teacher in regard to the award of grades is not under question, the examination committee has to ensure that there has been fairness in dealing with all the students and inadvertent errors are to be corrected. The experience of the examination committee in operating the system along with suitable suggestions to teachers in the interest of improving its effectiveness is found in an internal confidential document which was distributed to all teachers. The suggestions embodied in it will help the faculty to maintain their records in a convenient and common format and save their time on such routine matters.

Clause 13 of the academic regulations gives details on the operation of the course and the award of the grade by a teacher and enjoins a responsibility

on the student also. In this connection two watchdog committees were formed—one consisting of students and the other consisting of faculty to be on the alert about any difficulties developing during the operation of the system.

Innovation accelerator effect

BITS soon realised that examination reform is not an end in itself and it could be a very powerful means for many other innovations. Specific attention is drawn to the introduction in 1972 of the five-year integrated programmes at BITS. It is not the intention here to describe this in detail. The salient features of the five-year integrated programmes are: an integrated approach to engineering, science and humanities education with a number of common courses in foundation years i.e. the first three years. Some of the common foundation courses are: workshop, graphics, linear algebra, computer programming, introduction to management and some basic courses in mathematics, science and engineering sciences. In the case of courses in humanities the student is given the facility to select a specified number from a list of such courses under a requirement of humanities electives. Such structuring of the programme gives the student an additional flexibility so that he can transfer from one programme to another without loss of time. From the point of view of the teacher basic courses in the foundation years are the same whatever be the discipline of the student. The faculty realise a work satisfaction as the students voluntarily came to the course with considerable motivation.

Implementation strategy

An interesting consequence of this educational restructuring is the introduction of the 'E' grade which is the lowest grade replacing the earlier 'F' grade which was a failure grade. 'E' grade is an acceptable grade. This was introduced in May 1975, by which time a tremendous amount of involvement in the educational operation has taken place both among the faculty and students at BITS. The change over from F to E was done after considerable discussion spread over 15 months in forums such as the student Faculty Committee and student forums. Both students and faculty were seriously concerned at that time about the consequence of a student getting too many E grades. To quote the students: "Do you think we have come to BITS spending our parents money to collect as many E grades as possible." The faculty while conceding the point felt that there should be some check on the number of E grade which a student can get in a semester. It was finally agreed that no student can get more than one E grade in every semester. The educational philosophy of the Institute interlinks and at the same time distinguishes between performance of a student in a single course and his overall cumulative performance. The possibility of the student not taking the E grade seriously was considered and an additional report of the teacher called NC (Not Cleared) was introduced. Reg. 18.1 says "Where a student continued to remain registered in a course but gave the instructor no opportunity to evaluate him by absenting himself

from all quizzes/tests/examinations and other components of evaluation, or by appearing in the same for the sake of appearance without applying to the task of answering the questions, or by submitting a blank script (answer-book), this event will be reported as 'Not Cleared' (NC). The student so reported would have to register in the same course again at the earliest opportunity". A student getting more than one E grade will come under the purview of a newly constituted Senate Committee called Academic Counselling Board. Regulation No. 24 defines the expected minimum performance and progress and regulation 25 gives the role of the ACB in this connection. The ACB contains both students and faculty as full members.

Further Innovations—Interaction with the Environment

BITS also realised the inadequacy of the ivory tower attitude of universities in relation to training students for their future profession. In this context BITS experience of operating the practice school is described elsewhere. The practice school experience has also resulted in the faculty at BITS being able to identify relevant research projects which can ultimately be done in a university and which have relevance in connection with national development.

Function based administrative restructuring

With the introduction of innovations such as internal evaluation integrated programmes, Course Development, practice school and directions of research, involving faculty and students at the planning as well as implementation stages, BITS realised that the educational administration should be restructured. This was formalised in 1976 with the introduction of seven functional divisions headed by deans who are faculty members. These faculty were already playing a major role in the implementation of the innovations.

The role of the teachers also got well defined in terms of Institute objectives as well as development and growth of faculty. The faculty could join any one of the functional divisions on a voluntary basis. While BITS is certainly grateful for the challenging roles that the faculty have taken upon themselves, BITS is also cognisant as an administration of its own responsibility in redefining a reward system. Thus at BITS, a faculty can put in efforts to further the objectives of the organisation, and his perception of his role and his achievement contribute to his reward directly. Thus at BITS it is not merely the number of research papers that a faculty member contributes that are a measure for reward but it is also good teaching, course development, involvement in the practice school operation, participation in relevant research and contribution to educational administration that are taken into consideration in recognising merit.

Conclusion

The intense involvement of both students and staff in planning and operation of various innovations at BITS has generated a pattern of behaviour. It is a behaviour born from the discipline of involvement and participation. Code of conduct, be it for teachers

or students, cannot be imposed from outside. It is repugnant and self-defeating. At BITS when students and staff are given the opportunity to be involved in the management of the educational system they have realised a self discipline through work. It is a difficult process because attitudes have to change and old habits have to be discarded. BITS is convinced that the experience of students and staff in management participation will stand BITS in good stead and give it strength to face new challenges like efforts at Collaborative Education with industry and linkages for National Development and developing an active centre for educational research and institutional development.

Role of Higher Education in the Process of Development and Change

(Continued from page 238)

7. School Health Programmes.
8. Family Welfare (Planned parenthood).
9. Control of Communicable Diseases.
10. General suggestion for the upkeep of health and sanitation.

A three day camp on Nutrition, Food and Child care was also conducted on 1, 2 and 3rd March by the department with the collaboration of the Mobile Food and Nutrition unit of the Central Government in Padmanabham Village. The following items were discussed and some demonstrations were also conducted in regard to use of materials for better nutrition.

(a) Nutrition for vulnerable groups followed by demonstration of food for vulnerable groups.

(b) Food borne and water contamination followed by demonstration of weaning foods.

(c) Demonstration of groundnut preparations and ragi products.

Though the camp, was intended for women, 20 community health workers, 10 trained dijs and 6 adult literacy teachers also participated.

We are already having a follow up of the first camp when the instructors reported some desirable changes like village sanitation drive undertaken by the adult education group in the village, Podugupalem. In another village the adult education instructor and the participants went round and informed about the spread of communicable diseases through open drains and garbage pits and educated the villagers to have compost pits and soakage pits. This was the result of the camp and we want to follow this type of programme through a series of training camps in villages where knowledge, theory, practice and specific action are integrated. This is a new experiment which we are conducting in the field and which we hope to continue in the next few months. This can be one strategy of non formal education where adult education groups will be involved to solve specific problems and issues concerning their villages. Specific action proposals can be carried to the advantage of the villagers for their development and better awareness through mutual consultation and dialogue. □

PM addresses the convocation of NEHU

Prime Minister Shri Morarji Desai delivered the second convocation address at the North-Eastern Hill University, Shillong, recently. He emphasised the importance of education to harness faith, character and self-reliance in the youth. The youth should build confidence on the basis of the country's cultural heritage to bring prosperity in the country. Shri Desai who is also the Chancellor of the university said government had taken steps to re-orient the educational system and frame a new policy in consultation with the educationists of the country. Education had been the chief instrument of enabling a person to know his capacity, limitations and also to provide him with the capacity to overcome these limitations. We had a great tradition in our country when education was imparted free of cost and also

the country to meet the requirements of Meghalaya, Mizoram and Nagaland. Dr. Dhan said the university was also giving equal importance to the programmes of non-formal education to achieve the objective of development of human resources.

Gurukul Mahavidyalaya convocation

Delivering the convocation address at the Gurukul Mahavidyalaya in Hardwar, Shri Banarasi Das, Uttar Pradesh Chief Minister urged the young graduates to translate the knowledge acquired by them during their student career into action. The Chief Minister said that their main task was to serve the society and make it happy and prosperous. This was a continuous process and the students should therefore keep on enriching their knowledge. He said that they could succeed if they became fearless, dedicated and devoted to their pursuits and ideals. The

to increase productivity. If we could become self-sufficient in foodgrain production, the peasant would sell his surplus production in export market to fetch valuable foreign exchange for the country. Shri Charan Singh referred to the stagnated growth rate, increasing unemployment and widening disparity of income between the urban and rural sectors. The Deputy Prime Minister called for a change in attitude of younger generation and asked them to be more practical in their approach towards problems facing the country. The degrees of Doctorate of Sciences were conferred on Shri Charan Singh and Dr. A.N. Khosla, former Governor of Orissa and renowned scientist.

IT Kanpur convocation

In his convocation address delivered recently at the Indian Institute of Technology, Kanpur, Dr. Triguna Sen, former Union Education Minister said that these days too much emphasis was being laid to make the education system vocation-oriented.

He said education was of two kinds: one which served the time while the other was more durable and priceless. Most of the educational institutions in the country from primary to university level were imparting education of the first kind and missing the essence of true education which was aimed at preparing good human beings. Dr. Sen observed that linking education to jobs and vocations and treating students as mere apprentices might be beneficial temporarily but was inimical to the healthy growth of society. The country had many technocrats and professionals but very few people were available who could inspire others through their selfless service and vision. Dr. Sen called on the younger generation to undo the damage done to the system in the past.

Shri L.M. Thapar, Chairman of the Board of Governors of the Institute said the Institute was fully geared to face the challenges of change and progress.

Dr. A. Bhattacharya, Director of the Institute said in his address that the Institute had gained standard of excellence during the recent years.

CONVOCATIONS

free from any control. The Prime Minister stressed the need for acquiring knowledge about Dharma which enabled us to be happy while making others happy. Education ought to have enabled us to love our own country and to have confidence. It was very important to realise the role that education had played in shaping the present and future of the country. Shri Desai said the education system had to be reoriented based on the wisdom of the past and realities of the present.

Dr. A.K. Dhan, Vice-Chancellor of the university said in his address that apart from the usual functions, the university was committed to pay special attention to the improvement of socio-economic conditions and welfare of the people of hill areas, particularly, their intellectual, academic and cultural advancement. The university had created an all-India faculty drawn from every state of

country was passing through a transitory period where old values were being questioned and new values had yet to replace them. The Chief Minister advised the students that the traditions and values which were of permanent nature and had stood the test of time should be consolidated.

The university conferred the degree of Neet Vachaspati on Shri Banarasi Das.

OUAT convocation

Shri Charan Singh, Deputy Prime Minister delivered the convocation address at the Orissa University of Agriculture and Technology in Bhubaneswar recently. He emphasised the need for bigger land holdings to raise agricultural production and to provide better standard of living to the rural masses in the country. He asked the rural people to take up non-agricultural vocations to ease the pressure on land and

Patna Varsity development programmes

PAU research on solar energy

Dr. T.B. Mukherjee, Vice-Chancellor of Patna University said recently in Patna that the university had taken several steps to improve the academic programmes and the welfare of its students and faculty members. Preliminary steps have been taken to utilise the available grants for construction of new buildings, hostels and for purchase of books and journals. An independent radiology section in the university dispensary would be started soon for the benefit of teachers and the employees. A well furnished dental unit will be commissioned for service in May. Dr. Mukherjee said that the tuberculosis survey conducted by the university on the student community was in progress. Of the three thousand

the UGC and the state government had been approached for sanctioning adequate funds for construction of residences for the teachers and other staff.

AMU organises symposium on interdisciplinary research

Speaking at the opening session of the two-day symposium on inter-disciplinary research, teaching and university administration organised by the Aligarh Muslim University Welfare Organisation in Aligarh recently, Dr. A.M. Khuro, Vice-Chancellor of the university pleaded for inter-action of different faculty members to promote inter-disciplinary research in universities. He suggested formation of a review committee

The Punjab Agricultural University at Ludhiana is engaged in developing an engine and perfecting a collection system to use solar energy to run irrigation pumps and other farm equipment. Solar energy concentrators designed and developed at the university are being used to concentrate solar energy in such a way that high pressure vapours are produced. The vapours are condensed and fed back to the unit for reheating. The engine has performed well in the trials and is designed for minimum power loss and vapour leakage. The university scientists are also working on a number of other projects in the field of solar energy. As Punjab has bright sun for the better part of the year, conditions are felt ideal for the exploitation of solar energy. The cost of farming may be reduced when the means for store and utilisation of solar energy are perfected. The Solar Energy Department of the university developed a solar water heater in 1971. Solar air heaters of various designs have been developed and tested at the university. The development of air heaters has helped in the designing of agricultural products drying devices. The Department has also attempted to develop various types of concentrators to collect solar energy at medium and high temperatures.

AU plans Telugu courses

Presiding over the contact programme at Visakhapatnam of the students taking postgraduate correspondence courses, Shri M.R. Apparaw, Vice-Chancellor of Andhra University said that the courses would revolutionise higher education. He said that the programme had been arranged with a view to bring students and the faculty in close contact. The university has sought permission of the Union and the State Government for starting a certificate course in Telugu for Indians residing abroad who were interested in taking the course.

Dr. K.V. Sivayya, Director of the correspondence courses said

CAMPUS NEWS

persons scanned, about one hundred cases of TB were receiving treatment under the scheme. This was a unique research project carried out by the university with the help of the University Grants Commission.

The proposal for opening a reprographic section in the university library had been prepared and sent to the University Grants Commission for release of financial assistance. The proposal for starting teaching in library science had been submitted to the state government. Dr. Mukherjee said that the UGC had committed a grant of Rs. 1.20 lakhs for imparting adult education in the university. Centres had started functioning in Science College, Magadh Mahila College and in some other colleges under the auspices of the National Service Scheme. The Vice-Chancellor said

which could pin-point shortcomings and suggest ways and means to replenish the existing system. Dr. Khuro said that AMU was a shining example of secularism in the country. The rate of increase in the number of applicants for admission to the university courses had posed a challenge to the administration.

Prof. Q.H. Farooque, Head of the Department of Commerce in his presidential address emphasised the social responsibility of researchers. He said that theses being the scientific documents should have inter-disciplinary approach to enhance their utility.

Prof. Nawab Hasan Khan, convener of the symposium said that the papers read at the symposium would be preserved as a permanent record for future guidance.

the University Grants Commission had agreed to finance the correspondence courses for the initial four years. He felt that it was a matter of pride that the university had been selected for running these courses.

About six hundred students participated in the contact programme which was held for a week.

Role of teachers

Inaugurating the annual conference of the Federation of University Teachers' Associations of Bihar at Bhagalpur recently, Dr. Satish Chandra, Chairman of the University Grants Commission called upon the teachers to take due share of social responsibilities in view of their position as intellectual leaders of the society. He said the nation was trying to evolve an integrated national policy on education right from primary to the university stage. The university teachers should take interest in what was happening in the educational institutions around them in the larger interest of the community. Prof. Satish Chandra asked the teachers to work for the success of adult literacy programmes and the various schemes of non-formal education.

Shri Thakur Prasad Singh, State Minister for Higher Education, pleaded for the revival of faith in modern spiritual values.

Dr. G.P. Sinha in his presidential address detailed the present crisis in colleges and universities as reflected in different manifestations of unrest at the campuses. Dr. Sinha said the unrest was basically due to the socio-economic factors and the decline in social values that had taken place at all levels of society. The solution could be brought about by coordinated efforts by all concerned.

A seminar on higher education and the role of teachers was organised on the occasion.

Progress at Magadh Varsity

The Magadh University senate at its recent meeting approved a surplus budget of the university for the next financial year. The

estimates showed an anticipated receipts of Rs. 825.7 lakhs and an expenditure of Rs. 825.4 lakhs. Dr. Hargobind Singh, Vice-Chancellor of the university said at the meeting that the post-graduate teaching in labour and social welfare, jainology and statistics would be introduced soon. A clock tower would be constructed in the university library for the benefit of students and teachers. The Vice-Chancellor said that examinations in honours subjects would be arranged at fewer centres as an attempt to restore sanctity to the examination system. Coaching facilities in hockey and football would be provided to the university students from the next session. The senate authorised the Vice-Chancellor to constitute a committee of the Members to prepare the guidelines for establishment of new colleges.

ISM locates additional graphite deposits

A group of teachers and post-graduate students of Indian School of Mines, Dhanbad, have located additional graphite deposits as a result of their field investigation in Balangir and Sambalpur districts of Orissa. On the basis of results obtained by the students, a test location was released near Dahita village where a graphite vein of about one-foot thickness at a depth of seventeen feet was struck at the site. A de-

tailed survey of the area near Berni resulted in three more test locations. All these test locations have been proved to be discovery locations.

The team of the School had struck graphite in Bender and Behermunda during their field investigation last year.

IARI research on high yielding varieties

Dr. H.K. Jain, Director of the Indian Agricultural Research Institute said recently in New Delhi that the new varieties of high yielding wheat released for current sowing were likely to result in a significant increase in productivity and production of wheat. The Institute has developed the seeds keeping in view the characteristics of soil, irrigation and typical agro-climatic conditions prevailing in different regions of the country. Dr. Jain said that wheat production was expected to reach a record level of 34 million tonnes this year with the sowing of these varieties. He hoped that it would be possible to control the pest epidemics with the new varieties as these had a diverse genetic base. The Institute had located hot spots of these diseases so that the epidemic was contained at the source. The use of these anti-rust varieties in the South will be a break-through in the efforts to eradicate rust diseases.

ASSOCIATION OF INDIAN UNIVERSITIES

Din Dayal Upadhyaya Marg, New Delhi-110002

Applications are invited from University/College Teachers for a **BASIC LEVEL CORRESPONDENCE COURSE IN EVALUATION METHODOLOGY AND EXAMINATIONS**. The duration of the course will be six months beginning 1st July, 1979. The course is proposed to be organised from four Regional Centres (Mysore, Surat, Shillong and Delhi) and will be conducted and coordinated by the Research Cell, AIU. A personal 'contact programme' at the centres is also planned.

Requests for prospectus and prescribed application forms, accompanied by a crossed Indian Postal Order for Rs. 5/- drawn in favour of 'The Secretary, Association of Indian Universities' together with a self addressed stamped envelope (40 paise) should reach the undersigned by **May 19, 1979**. The last date for receipt of applications in the prescribed form is **June 1, 1979**.

V. Natarajan

Project Officer (Examinations)

system. Guidelines were formulated by the Commission to use the enthusiasm of students for constructive purposes in programmes of rural development, community service, adult education with special emphasis on adult literacy and extension services.

Technology for growth

Dr. P.C. Chunder, Union Minister of Education inaugurated recently in Calcutta an exhibition on new technology for growth sponsored by the West Bengal Research and Development Committee. The Union Minister said that the government was not opposed to scientific and technological development in the country. The government had sanctioned a huge allocation in the plan for development of science and technology. Although active steps were being taken for development of the national laboratories it was felt that smaller laboratories had also an important role to play in bringing science and technology to the people. Technology could improve the life of the people and the government was making its efforts to encourage scientific developments in the country. Material progress has always depended on technological progress which could also be utilised to solve major economic problems. It was for the nation to combine scientific and managerial skills to reach the people. Dr. Chunder called for a comprehensive and composite efforts in this direction.

Gauhati Varsity community development programmes

The inaugural function of the UGC sponsored extension project of the Department of Anthropology of Gauhati University was held recently at Hahim in Kamrup district. The objective of the project was to assess the impact of community development programme on Hahim gram sevak circle which was inhabited by the tribal population of Rabhas, Kacharis and the Garos.

Shri Zehirul Islam, State Minister of Community Development, expressed his satisfaction in taking

up such a study by an academic body to assess the impact of community development programmes. He highlighted the importance of the study which will cover the tribal population. Anthropologists could play a significant role in making the community development programmes a success. The Minister assured of the co-operation of his department in the implementation of the project taken up by the university.

Shri Asraf Ali, Chief Guest and Director of Public Administration of Assam highlighted the problems of the tribal population of the region. He appreciated the idea of bringing anthropology, a science subject of the university, within the easy reach of common man.

Prof. B.M. Das, Head of the Department of Anthropology of the university presided over the function.

National panel for solar energy suggested

In his keynote address at the workshop on solar energy organised recently at the Panjab University, Mr. C.J. Swet, Adviser to the US Solar Energy Research Institute said that to formulate an effective programme for development of solar energy storage techniques the subject should be viewed from various angles. The subject should be divided into solar application, energy sources, storage modes, technologies and strategies.

Dr. R.L. Datta, President of the International Solar Energy Society emphasised the need for national commissions of solar energy in various parts of the world. Solar energy uses must be related to the basic needs of life.

Prof. R.C. Paul, Vice-Chancellor of the University said since most of the developing countries were near the tropics where solar energy was abundant, these countries could take to solar energy.

An exhibition on different ways of storing energy and its application was arranged on the occasion.

Plan for Varsity at Mangalore

Dr. V.K.R.V. Rao, former Union Minister and Chairman of the committee constituted by the Mysore University to examine the various issues pertaining to the establishment of a new university at Mangalore has submitted its report recently to the State Chief Minister, Shri Devaraj Urs. The committee has suggested establishment of university centres at two campuses—one at Konaje, 15 kms. from Mangalore where a postgraduate centre of the Mysore University is already functioning and the other at the city campus, at Mangalore. Dr. Rao said a provision of Rupees twenty-five lakhs for the Mangalore University had been made in the state budget. The committee has suggested a non-recurring provision of Rupees 1.65 crores and recurring expenditure of Rupees 88.5 lakhs for establishment of the university. It has been recommended that in order to involve the community, the university should start a centre for community services to provide for rural and cooperative programmes including adult literacy, slum development and adoption of villages for their all-round development. Suggestions for improvement of facilities for study of Yakshagana, Bhoota cult of South Kanara, Tulu, Konkani and Dodava languages have been made in the report. The proposed university would start evening classes for the benefit of employed students. The demand for business administration courses would be met by introducing degree courses.

HAU adopts seven hundred families

Dr. P.S. Lamba, Vice-Chancellor of Haryana Agricultural University, said recently in Hissar that all the university programmes will be taken to the farmers through the krishi gyan kendras and regional research stations of the university. The university has adopted seven hundred families of marginal and landless farmers for their economic and social welfare. The Vice-Chancellor

the university will spend Rs. 335.96 lakhs on research programmes during the current session. The research schemes to be taken up include aided projects at Bawal and Hissar. Special attention will be paid by the university to research schemes in dry farming. The training programmes conducted by the university have also become popular with the farmers of other states. About five hundred farmers from Bihar, Himachal Pradesh, Jammu & Kashmir and Rajasthan visited the university recently to familiarise themselves with the progress of the various programmes carried out by the university.

HAU introduces course on library use

Haryana Agricultural University will introduce for the post graduate students a short-term course from the next trimester on the use of research and reference tools of the library. This will be a one credit hour course like a seminar course and will have to be cleared at the masters level. Those students who have done their masters degree elsewhere will have to clear this course while doing their Ph.D. at the university. Dr. R.N. Pal, Dean, Postgraduate Studies of the university said in Hissar that the course will have three parts besides lectures for part A and part B. Dr. Pal said that the introduction of this course will help the senior students in making the full use of the library in a systematic way and facilitate the work of research.

JNTU introduces four-year B.Tech course

The Executive Council of the Jawaharlal Nehru Technological University, Hyderabad at its recent meeting held under the Chairmanship of Vice-Chancellor, Dr. N. Shaanmukha Rao approved the conversion of five-year B. Tech. engineering course to a four-year degree course from the next academic session. Two seats each in civil, mechanical, electronics and communications and three seats in architecture will now be reserved in the second year degree course for direct admission of the diploma holders.

A research fund was instituted at the university to motivate faculty members to take up research programmes. Research grant would also be made available to colleges on request after approval by the research committee.

Conference of academic librarians

Professor M.V. Mathur, Director of the National Staff College for Educational Planners and Administrators inaugurated the first national conference of the Indian Association of Academic Librarians at the Jawaharlal Nehru University, New Delhi recently. Prof. Mathur said he visualised the librarian as a non-formal teacher who along with the subject specialists should take stock of at least basic books in libraries. Librarian had a special role to play in the changing educational pattern in the country. He pointed out that most of the libraries were not equipped to deal with the plus 3 stage although the system had been in vogue for some time. Now that the regional languages have been recommended as the medium of education, it was necessary to stock books to meet these requirements. There was no scarcity of funds if these were utilised properly. He said that librarian should inculcate a reading habit in students and book clubs. Exhibitions should be organised with this objective. Proper library facilities for the poor students who cannot buy expensive books should be provided. Prof. Mathur suggested creation of a special fund for duplication of reading material for these students.

Prof. Sarup Singh MP, and former Vice Chancellor of the Delhi University said in his presidential address that libraries should be fully equipped to cater to the changing needs of the readers. The academic librarian should be able to guide the reader about procurement of the material which was not available in his library. A good librarian should love books and make others love them.

Earlier Shri K.R. Narayanan, Vice-Chancellor of the university

welcomed the delegates and said that book being a mighty supplement to life, the librarian should promote the reading habit in the community.

Academic programmes at Agra University

The Agra University has formulated a plan of action to conduct the examinations from May 15 to June 30 to ensure the opening of next session from July. The university has announced that post-graduate examinations will not be conducted on June 11-13 to enable the students to appear at the IAS examination. The State government has been approached for considering the suggestion that teachers of the affiliated colleges be granted compensatory leave or encashment of their leave in lieu of their work during the summer vacation. Central evaluation system will be introduced on the campus for all the faculties. The university has been able to dispose of the old cases of migration certificates and despatch diploma certificates to the students. A new formula for re-evaluation of examination papers of the students has been evolved. Dr. S.N. Mehrotra, Vice-Chancellor of the university said recently in Agra that he would submit a detailed report to the State government for improving the academic standards at the university.

Personal

1. Dr. S.N. Mehrotra has taken over as Vice-Chancellor of Agra University with effect from 14th April 1979.
2. Prof. P.V. Indiresan has taken over as Director of Indian Institute of Technology, Madras with effect from 16th April 1979.
3. Prof. L. P. Agarwal, Director of the All India Institute of Medical Sciences has been selected by the Committee of French League and the International Organisation against Trachoma for the 1979 gold medal award.

Allocations for higher education

Laying the foundation stone of new building for the History Department of the M.S. University of Baroda recently, Prof. Satish Chandra, Chairman of the University Grants Commission said that Planning Commission had proposed a drastic cut in the allocation of funds for higher education in the sixth plan. The Planning Commission had allocated rupees one hundred twenty six crores only against the earlier provision of rupees two hundred ten crores in the fifth plan. Prof. Satish Chandra said that he had approached the Planning Commission to reconsider the proposals in the interest of proper development in the field of higher education. The University Grants Commission had undertaken measures to raise the standard of university education by starting fellowship programmes for teachers and about two thousand research projects, which would make an impact in a couple of years. About one thousand university teachers were doing their research under the teacher fellowship programme of the Commission. Most of the universities in the country have been allotted a research grant to promote their research studies. Seventy-one universities are receiving development grants from the Commission. The Commission had spent about rupees twenty crores towards development of the research programmes during the fifth Plan period. About eighty-six universities had introduced regional languages as medium of instruction at different levels. Prof. Satish Chandra said the educational experts had submitted their recommendations to the Prime Minister for introduction of a new pattern of education to make it more purposeful and meaningful.

Varsity at Gulbarga proposed

Shri S.S. Wodeyar, Vice-Chancellor of Karnataka University said recently in Dharwar that the postgraduate centre at Gulbarga

was expected to be upgraded to a university from the next academic year. He said the state government had made a provision of rupees fifty lakhs in its budget for development of the postgraduate centre which would also be helpful in accelerating the pace of preliminary work for establishment of an independent university. The Vice-Chancellor appreciated the work done by the committee set up under the chairmanship of Dr. A.S. Adke, former Vice-Chancellor of the university to study the case for establishment of a university in Gulbarga. The committee has submitted its interim report to the state government.

Orientation of courses in agricultural marketing

The Punjab Agricultural University has been selected by the Food and Agricultural Organisation as the lead agency for improving the teaching of agricultural marketing at various levels. Dr. D.S. Sidhu, Head of the Department of Economics and Sociology at the university said recently in Ludhiana that the new programme envisaged orientation of the courses in agricultural marketing for general improvement in the conduct and performance of agricultural input and output markets and marketing efficiency.

Convocation sans Degrees-Diplomas

(Continued from page 237)

year for *Dharma Yatra* in the rural areas. Those who join the *Dharma Yatra* have to make their own arrangements for food, shelter and travel. No roll of membership is maintained. Still on its roll are devoted *swadhyayis* who include eminent jurists, lawyers, professors, learned people. An internationally famous company law practitioner plans his *Dharma Yatra* to Kutch straight from the airport after return from an international trip.

The *sutra* is you do all you feel like doing for God's sake. You oblige nobody by doing anything for Him. You are performing your own *Dharma*. You should also not permit your left hand to know what your right does or gives. The account of the institution is maintained to a pie with great care and scruple. Voucher for every donation is issued. Still no public appeal is issued for funds, no publicity is given to donors or donations. If the donation is above one hundred, the donation is immediately not accepted. Two-three times it is avoided and the donor is required to approach two-three times to make sure that the donation is genuinely inspired by God and that He desires that the donation be accepted. The solid-rock-like foundation of faith in God and the goodness of mankind is what prompts the *swadhyayis* to bear the torch of human welfare and be a *Nimit Matra* (निमित्त मात्र).

Shastriji has 16 such institutions spread all over the country, each working silently in its own way, seeking nothing from anybody and raising no expectations. What God wills be done.

The institution has a programme of *Van Dikha* (वन दीक्षा), planting trees in Rajkot on 26th and 27th of April 1979. *Swadhyayis* and farmers will plant trees. They will look after them each one as desired. And a whole *Upvan* (उपवन) will be raised. No *Van Mahotsava*, only *Van Dikha* (वन दीक्षा) to plant and raise trees.

This process of self-study, self-help, devotion to duty and service in the name of God is an ideal example of what the nation needs in terms of educational renaissance. □

A list of Doctoral Theses Accepted by Indian Universities

SOCIAL SCIENCES

Psychology

1. Saxena, Vinod Bihari Lal. A study of the motivational pattern of restive students leaders. Kanpur University.
2. Shashi Lata. Prediction of academic achievement. Meerut University.

Sociology

1. Bidarakoppa, G. S. Role of religious institutions in the promotion of social welfare in Dharwar District, Karnataka. Karnataka University.
2. Katakia, Manjula J. Kapole caste in Greater Bombay: A sociological analysis. S.N.D.T. Women's University.
3. Krishna Kumari, K. International migration: Its dependence upon heterogeneity of population composition. University of Kerala.
4. Nirmal Singh. Private control of higher education: A study in ideology, its conditions and sociological consequences. Jawaharlal Nehru University.
5. Mishra, Laxmi Shankar. The study of the social system of small scale industries at Kanpur. Kanpur University.
6. Sinha, P. S. N. Urban youth and modernization. Magadh University.
7. Thankamony, K. B. Professional orientation of management: A sociological study of managers of public and private enterprises in Kerala. University of Kerala.

Political Science

1. Agarwal, Pushpalata. Amendments to Indian constitution from 1950 to 1967 with special reference to their legal and political implications. Kanpur University.
2. Chopra, Ashwani Kumar. India's policy on disarmament. University of Delhi.
3. Parihar, Ram Kumar Singh. Uttar Pradesh ke Fatehpur Janpad mein sthानीया swaytat shasan sansthaon ka swarup evam kriyanvayan, 1947 se 1974 tak. Kanpur University.

Economics

1. Agarwal, Ashok Kumar. A study of commodity taxation in Uttar Pradesh. Kanpur University.
2. Govinda Rao, M. Determinants of tax revenue and non plan revenue expenditures of the states in Indian Federation: A time series analysis with special reference to Kerala, Mysore, Orissa and West Bengal. Sambalpur University.
3. Mahapatra, Sindhadi Bihari. Industrial wage structure in Orissa. Berhampur University.
4. Makhan Lal. Location of footloose industries: A case study of the Punjab and Haryana. Jawaharlal Nehru University.
5. Munidaraswamy Naidu, K. Food production, credit and co-operatives in I.A.D.P. districts with special reference to West Godavari District of Andhra Pradesh. Sri Venkateswara University.
6. Murali Mohan Rao, Ravi. Inter state variations in the performance of the primary agricultural credit societies. 1960-61 and 1970-71: A study in measurement. Andhra University.
7. Murty, B. S. Trade Union in Orissa State: A study of its growth, organisation, structure politics and leadership. Berhampur University.
8. Narasimha Reddy, D. Trade Union movement in Indian Railways. Sri Venkateswara University.

9. Seshadri, I. J. H. Portfolio behaviour of Indian scheduled commercial banks, 1950-75. Indian Institute of Technology, Kanpur.

10. Sivakumar, S. S. Theory of peasant economy: A study in neo-populism. University of Delhi.

Law

1. Raghuir Singh. Wage disputes in private and public sector enterprises in India: A comparative legal study of issues and alternatives involved. University of Udaipur.

Education

1. Bhatia, Tilak Raj. An experimental study of the effect of Reciprocal Inhibition Therapy on anxiety in adolescents. University of Delhi.
2. Gupta, Laxman Prakash. A study of personal characteristics and academic achievement of scheduled caste and backward class students of Meerut University. Meerut University.
3. Gupta, Meenakshi. An information integration analysis of developmental trends in attribution of scholastic performance. Indian Institute of Technology, Kanpur.
4. Mohammed Siddiqui Rahman. Development of population education curriculum in a system of non-formal education for out-of school youth. University of Delhi.
5. Narsian, Sushila Dharamdas. Innovations in higher education in India. M. S. University of Baroda.
6. Sahab Singh. Relationship between teacher's personality, teaching success and behavioural changes in students. University of Udaipur.
7. Sharma, Ganga Ram. A study of factors underlying adjustment problems of professional and non-professional college students. Meerut University.

Commerce

1. Bhattacharyya, Swapankumar. A survey of material accounting method towards a homogeneous process. University of Calcutta.
2. Mohandas, S. Kirupakara. Pricing in passenger transport services by road with special reference to Tamilnadu. University of Madras.

HUMANITIES

Philosophy

1. Ruddy, Guillelmus. Comparative poetics as a purely formal science with special application to Advaita Vedanta and the phenomenology of Husserl. University of Madras.

Fine Arts

1. Choyal, Shail Kumar, Nathdwara—An art centre: A study of Nathdwara School of Painting from 19th century to mid 20th century. Meerut University.
2. Mohan Rao, G. A critical study of nomenclature and notation in Indian Music with special reference to Karnataka music. University of Delhi.
3. Syal, Prakash. Radio play and stage play acting: A comparative study. Punjabi University.
4. Veena. Muzaffarnagar kshetra ke lok kala rup. Meerut University.

Linguistics

1. Priyram Chander. A critical study of Tarka Bhasha by Keshav Misra. Punjabi University.

English

1. Dwivedi, Anirudh Prasad. The social philosophy of Jhon Dos Passos. Kanpur University.
2. Manapure, Sudhakar Krishnarao. Humanism in the Indo-English novel, 1925-55. Nagpur University.
3. Misra, Jagdish Shankar. Thematic patterns in the novels of Graham Greene. University of Saugar.
4. Tikoo, Swaraj Kishen. The 'mystery' element in the plays of T.S. Eliot. University of Delhi.

Sanskrit

1. Awasathi, Sudha Rani. Bhas (atha) Kalidas ke natya shilp ka tulnatmak adhyayan. Kanpur University.
2. Bimla Rani. Pramukh Shaiv Satri kavyon ka sahityik adhyayan. Meerut University.
3. Biswas, Kalpana. A critical study of the Dasabhumikakutra. University of Delhi.

Punjabi

1. Puar, Joginder Singh. A grammatical study of time and tense in Punjabi. Punjabi University.
2. Satinder. The semiological patterns in the legend of Mirza Sahiban. Punjabi University.

Hindi

1. Asha Rani. Hindi Ramkavya parampara mein Lakshman ka swarup. Meerut University.
2. Bhargava, Laxmi Narain. Hindi Marathi natak evam rangmanch ka tulnatmak adhyayan. D.Litt. Meerut University.

3. Chander Prabha. Ghananand ke kavya mein ukti-vaichitra. University of Delhi.
4. Chaturvedi, Ramala. Jainender ke katha sahitya mein antardwand. Kanpur University.

5. Chauhan, Dilip Kumar. Bharat ke adhunik rajbhasa: Swarup aur samasyayen. University of Indore.

6. Chawla, Sushma. Vishnudas: Vyaktitv evam kritiv. Meerut University.

7. Chopra, Veena. Beesawin shatabdi ke aitihasik natakon mein yug-bodh. University of Delhi.

8. Ekka, Clement. Janavadi Hindi rang-manach ke parampara. University of Delhi.

9. Jasbir Singh. Gurugranth Sahib mein yugchetna, University of Delhi.

10. Kaushik, Dev Dutt. Bharatiya kavyashastra mein vyavharik sameeksha aur uske samajik prasangikata. Jawaharlal Nehru University.

11. Lahiri, Pushpa. Adhunik Hindi natakon ke sandarbsh mein Mohan Rakesh ke natya kritiyon ka anusheelan. Kanpur University.

12. Kuldip Kaur. Swatantriyotkar Hindi natakon mein yatharathita bodh. University of Delhi.

13. Paliwal, Rita Rani. Rangmanach aur Jaishankar Prashad ke natak. University of Delhi.

14. Pandey, Harisewak. Sant sahitya mein vaishnav tatwa. Avadh University.

15. Pathak, Ram Dulare Lal. Natyakala ke drishtit se Jaishankar Prashad aur Harikrishan Premi ke natakon ka adhyayan. Kanpur University.

16. Prem Lata. Hindi upanyas mein nari ke vividh rup, 1936-1950. University of Delhi.

17. Rahine, Chandrakala. Astitvad aur Hindi upanyas. University of Indore.

18. Saroj Bala Devi. Assam ke bhakti kavi Shankardev evam Sirdas ke kavya ka tulnatmak adhyayan. Meerut University.

19. Saxena, Sadhana. Kabir ke vishisht shabdawali ka darshanik evam sampradayik adhyayan. Kanpur University.

20. Sharma, Ramesh Chandra. Unnisi shatabdi ke natya sahitya mein parampara aur prayog. University of Delhi.

21. Singh, Jawaharlal. Chhayavad kavya ke adhyatmik chetna. Awadhesh Pratap Singh University.

22. Singh, Lallan Ji. Ramayan Kalcen yudh kala. (Hindi). Avadh University.

23. Tiwari, Leela. Bundelkhand ke pramukh ritikaleen kavyon ka anusheelan. University of Saugar.

24. Tripathi, Ramshankar. Patravartan ke avadharna. Avadh University.

25. Upadhyay, Ramasrey. Nai kavita: Ek mulyankan. Avadh University.

26. Upadhyaya, Jagdish Sahai. Kamrup mahakavya ka anusheelan. Kanpur University.

27. Ved Prakash. Ghananand aur Prashad ke kavyon mein soundarya evam prem. Meerut University.

28. Vohra, Shashi. Sathottri Hindi katha-sahitya ke bhasa ka sanrachnatmak evam shaili tatwik adhyayan. University of Delhi.

Bengali

1. Mukhopadhyay, Anima. Saptadas Satabde rah deser samaj o sahitya samiksa: Puratan puthir sutre alochana. Visva-Bharati.

Oriya

1. Mohapatra, Kulamani. Madhya yugiya Oriya riti kavayare srungari chetna. Utkal University.

Tamil

1. Saraswathy, V. Saadhi Qdippadei thalattu oppari padaigalai sila otrumai Vetrumaigal. Madurai Kamaraj University.

Kannada

1. Venkatesa Acharya, K. Mahabharata and variations: Perundeyanar Pampa and Nannayya. Karnatak University.

Geography

1. Jain, Jawahar Lal. Growth and distribution of towns in the Malwa Plateau, M.P. University of Saugar.

2. Pandey, N. P. Transport geography of western Madhya Pradesh. Bhopal University.

3. Tiwari, Vijay Kumar. Population of the Beruall-Chhindwara plateau: A geographical analysis. University of Saugar.

History

1. Bhagwat Swarup. The Viceroyalty of Lord Linlithgow, 1936-1943. Meerut University.

2. Bhojani, Hira. United States policy in Laos, 1954-1963. Jawaharlal Nehru University.

3. Daniel, D. Struggle for responsible govt. in Travancore, 1938-1947. Madurai Kamaraj University.

4. Dar, Mohamad Hamza. Promotion of learning in Kashmir: The Sultan period. University of Kashmir.

5. Mishra, Prabodh Kumar. Orissa, 1930-1936: A study in political developments. Sambalpur University.

6. Sarveswaran, P. History of Arcot under Nayavets and Wallajah Nawabs, 1703-1801. Madurai Kamaraj University.

7. Vakkani, Nihalchand Ananji. Adhunik Vidarbha ka aitihas, 1885-1947. Nagpur University.

ASSOCIATION OF INDIAN UNIVERSITIES

Sports Talent Scholarships

Sports Talent Scholarship applications for 1979-80 from university students and national level scholarship holders (awarded by NS NIS, Patiala) who intend joining universities next year are invited on prescribed forms available from the Association office and University Sports Offices. Applications complete in all respect should reach the Sports Board of the Association of Indian Universities, D.D. Upadhyaya Marg, New Delhi-110002 not later than 30th May, 1979.

INDIAN INSTITUTE OF TECHNOLOGY: DELHI

HAUZ KHAS, NEW DELHI-110029

Advertisement No. 10/79

Applications are invited for appointment to various academic and other positions in the Indian Institute of Technology, Delhi.

Posts	Scale of Pay
1. Professor	Rs. 1500-60-1800-100-2000-125/2-2500
2. Chief Design Engineer	
3. Industrial Liaison Officer (Training & Placement)	
4. Industrial Liaison Officer (Consultancy)	Rs. 1500-60-1800-100-2000
5. System Programmer	
6. Assistant Professor	
7. Senior Design Engineer	Rs. 1200-50-1300-60-1900
8. Senior Scientific Officer Grade-I	
9. Workshop Superintendent	
10. Public Relations Officer	Rs. 1100-50-1600
11. Lecturer	
12. Design Engineer	
13. Senior Scientific Officer Grade-II	Rs. 700-40-900-EB-40-1100-50-1300
14. Security Officer	
15. Deputy Librarian	
16. Research Associate	Rs. 1100-50-1600 Consolidated amount between Rs. 700/- and Rs. 1100/- p.m.
17. Senior Research Assistant/ Senior Tech. Assistant	

Candidates selected would be offered position depending upon their academic background and relevant teaching/professional experience. Higher initial pay will be admissible to specially qualified and deserving candidates.

Posts are permanent unless otherwise indicated. Appointees will have to elect any of two schemes viz. Contributory Provident Fund-cum-Gratuity or General Provident Fund-cum-Pension-cum-Gratuity operating at the Institute, on completion of one year's service. The posts also carry allowances as per rules, which at present correspond to those admissible to Central Govt. employees. Age of retirement is 60 years. Candidates called for interview will be paid second class railway fare from the place of their duty to Delhi and back by the shortest route.

Candidates selected will be provided with a maximum of economy class airfare for self and family provided they undertake to serve the Institute for a period of three years after joining.

Qualifications

Professor: Good Master's Degree/Doctorate Degree in appropriate field with minimum 7 to 10 years' distinguished experience in Institution of University standard at Post-Graduate level. Specialised knowledge in one or more specified fields with experience in guiding research. Professional/Scientific work of outstanding merit and Doctorate Degree would be preferred.

Assistant Professor: Good Master's Degree/Doctorate Degree in appropriate

field with minimum 5 years' experience in teaching/research in Institution of University standard. The experience must include research/industrial experience of not less than 2 years. Specialised knowledge in one or more specified field/subject with outstanding/teaching research experience and Doctorate Degree or published work of equal standard would be preferred.

Lecturer: Good Master's Degree in appropriate field with 2 years' research/industrial experience in any Institution of University standard/Establishment of repute. Doctorate Degree or published work of equal standard preferred.

Chief Design Engineer: Good Bachelor's Degree in appropriate field of Engineering with 10 years' experience or a Good Master's Degree in appropriate field of science with 12 years' experience in Design and Development in an established concern. Outstanding record in design and development of instruments, experience of looking after a design office through familiarity with production techniques, proven ability to guide a team of designers and to coordinate design and development of instruments for laboratory teaching, research work and production would be preferred.

Senior Design Engineer: Good Bachelor's Degree in appropriate field of Engineering or a Master's Degree in appropriate field of Science with 5 years' experience in Design and Development work in an established concern. Good record in development of instruments. Experience in inter-dis-

ciplinary projects and development of instruments for teaching, research and production.

Design Engineer: Good Bachelor's Degree in an appropriate field of engineering or a Master's Degree in appropriate field of Science with 2 years' experience in Design Development and Maintenance of Instruments.

Research Associate: Essential—Ph.D in related discipline. Experience in research/development or in Industry and publications desirable.

Senior Research Assistant/Sr. Technical Assistant for Rural Development only:—First Class B. Tech. Degree/First Class Master's Degree in Science in related discipline only. Final year students with outstanding academic record may also apply. Their selection/appointment will be subject to getting a First Class Degree.

1. DEPARTMENT OF ELECTRICAL ENGINEERING

Post: Professor, Asstt. Prof., Lecturer & S.S.O. Gr. II
Field of Specialisation

Professor: Electronics, Communication, Computers & Control.

Assistant Professor/Lecturer: (1) Computer Technology (2) Systems, Control Engg. and Instrumentation (3) Electronics Circuits (4) Communications and Microwave (5) Power Electronics, Electrical Machines and Power Systems.

Temporary posts at Asstt. Prof. level are also available in the Curriculum Development Cell attached to the Department. For these positions, persons with specialisation in any branch of Electrical Engg. will be considered.

S.S.O. Gr. II: First Class B. Tech. in Electronics/Electrical/Computer Engg. or equivalent with three years relevant experience or M.Tech in Instrumentation / Control / Computer / Electronics Engg. with one year relevant experience.

2. DEPARTMENT OF TEXTILE TECHNOLOGY

Post: Assistant Professor, Lecturer, S.S.O.-II
Field of Specialisation

Asstt. Prof./Lecturer: (I) Spinning, Weaving, Knitting, (II) Applied Mechanics/Machine Design, (III) Dyeing and Finishing of Natural and Man-made fibres/fabrics and (IV) Structure and Properties of Fibres.

Candidates with First Class Master's Degree in Chemistry/Physics or M.Tech. in Chemical/Mechanical Engg. with requisite experience in appropriate fields are also eligible.

S.S.O. Gr. I/Gr. II (Scanning Electron Microscope Laboratory) (Central Facility)

First Class B.E. Degree in Elect. Engg. or M.Sc. in Physics with a minimum of 5 years' experience in operating & maintaining Scanning and/or Transmission Electron Microscope facility including samples preparation. Persons with lesser experience (Minimum 2

years) may be considered for appointment at the SSO-II level.

3. DEPARTMENT OF HUMANITIES & SOCIAL SCIENCES

Post: Assistant Professor/Lecturer

Field of Specialisation: Modern Economic Analysis (Micro Economics/ Macro-Economics) Engineering Economics/Managerial Economics

4. DEPARTMENT OF APPLIED MECHANICS

Post: Professor, Assistant Professor/Lecturer

Field of Specialisation

Professor:- Experimental/Numerical methods in stress analysis, Elasticity, Plasticity, Dynamic Plasticity, Large Deformation, Dynamic stability, Plates and shells, Micropolar continua, Shear-wall, Structures, Composite materials, Fracture Mechanics

Assistant Professor/Lecturer:- Solid Mechanics, Fluid Mechanics, Material Science & Design Engineering.

5. DEPARTMENT OF CHEMISTRY

Post: Lecturer

Field of Specialisation:- Bio, Inorganic, Polymer and Physical Chemistry.

6. DEPARTMENT OF PHYSICS

Post: Professor, Lecturer, S.S.O. Gr. I

Field of Specialisation

Professor, Lecturer: Applied Optics/Solid State Physics/Plasma Physics.

S.S.O. Gr. I (Laser Applications Programme):- Ph.D. in Physics or Electrical Engineering, Minimum 6 years' research experience including 2 years of post-doctoral experience. Some experience in Applied Optics/Optical communications.

Desirable

Specialization in Physics, Fabrication and testing of optical waveguides.

7. DEPARTMENT OF CIVIL ENGINEERING

Post: Assistant Professor/Lecturer

Field of Specialisation:- (1) Water Resources Engineering (2) Transportation, Highways and Surveying (3) Soil Mechanics (4) Structures (5) Rock Mechanics/Soil Mechanics or Structures with special interest in rock mechanics.

Temporary positions also available in the Curriculum Development, Cell attached to the Department. For these positions persons with specialisation in any branch of Civil Engg. will be considered.

8. DEPARTMENT OF MECHANICAL ENGINEERING

Post: Assistant Professor/Lecturer, Sr. Res. Asstt.

Field of Specialisation

Assistant Professor/Lecturer: Turbo-machines, Power Plant Engineering, I.C. Engines, Refrigeration, Heat Transfer, N.C. Machine Tools, Metal Cutting, Metal Forming, Industrial Engineering (Automation Control), M...

... (S.T.A. Project); Good Bachelor's Degree in Mechanical or Chemical Engg. with specialisation or interest in I.C. Engines/Fuel and Combustion/Automobile

Engg., or 1st Class Master's Degree in Chemistry or Physics.

9. INSTRUMENT DESIGN DEVELOPMENT CENTRE

Post: Professor/Chief Design Engineer, Asstt. Prof./Senior Design Engineer, Lecturer/Design Engineer.

Field of Specialisation

Professor/Chief Design Engineer:- (1) Industrial Production (2) Mechanical Engg. Design, Development and Production of Instruments.

Assistant Professor/Senior Design Engineer:- (1) & (2) as above and (3) Electrical/Electronic Design, Development and Production of Instruments (4) Industrial Design.

Lecturer/Design Engineer: (1) to (4) as above and (5) Optical Design, Development and Production of Instruments.

10. COMPUTER CENTRE

Post: Assistant Professor, Lecturer, System Programmer IIT Delhi has acquired a large ICL 2960 Computer System which is expected to be operational by the middle of the year.

Field of Specialisation

Asstt. Prof., Lecturer:- System simulation; compiling techniques; computer architectures; computer aided design; computability; theory of programming languages; operating systems; computer graphics; switching and automata theory; numerical analysis and operation research.

System Programmer:- Master's Degree in Engineering with at least 3 years experience or Master's Degree in Mathematics/Applied Sciences/Bachelor's Degree in Engg. with at least 5 years' experience specialisation in computer science/system programming either with work on a large system or as part of research work towards Doctorate Degree. Good knowledge of software engineering essential. Research and Development in current topics of computer science desirable.

Note

Those who had applied for this post against Advt. No. 9/78 need not apply again.

11. INDUSTRIAL TRIBOLOGY MACHINE DYNAMICS & MAINTENANCE ENGG. CENTRE

Post: Professor/Chief Design Engineer, Asstt. Prof./Senior Design Engineer, Lecturer/Design Engineer.

Field of Specialisation

Professor/Chief Design Engineer: (1) Friction & Wear Analysis (2) Oil Analysis & lubrication planning (3) Diagnostic Maintenance and maintenance engg. application in Power houses and process industries (4) Machine Health monitoring & signature analysis (5) Tribological system design and its application in industrial process (6) Terotechnology (7) Energy conservation (8) Design Audit & review.

Assistant Professor/Senior Design Engineer:- (1) Same specialisation as mentioned for Professor's post. In addition other areas are (2) Acoustic Response & Noise Control in Machines (3) Performance testing & evaluation of machine components (4) Elasto-hydro-

dynamic lubrication (5) Fault diagnosis in tribo-systems (6) Wear resistance surface coating and Ion Implantation (7) Plant Maintenance & system analysis (8) Ferrography analysis.

Lecturer/Design Engineer:- (1) Areas same as that for Asstt. Professor's/Sr. Design Engineer (2) Wear mechanism of polymers (3) Machine dynamics & vibration (4) Surface mechanics (5) Application of optical instruments and lasers in tribodynamics (6) Additive formulations (7) Application of computers in terotechnology.

12. CENTRE FOR BIOMEDICAL ENGINEERING

Post: Design Engineer: Degree in Electronics/Electrical Engineering. Experience in design of biomedical instrumentation & medical electronic devices preferred.

13. CENTRE FOR ENERGY STUDIES

Post: Professor/Chief Design Engineer, Asstt. Prof./Lecturer/Design Engineer.

Field of Specialisation
Professor/Chief Design Engineer

(1) Electrical Energy Systems: Planning, energy conservation, fault studies, transients, control, optimisation and HVDC transmission.

(2) Solar Energy Utilisation: Stirling and rankine engines, selective coatings, energy storage, solar concentrators, absorption refrigeration, solar cells and solar architecture.

Assistant Professor/Lecturer/Design Engineer: (2) as above and utilisation of synthetic fuels in I.C. Engines and laser induced fusion.

14. CENTRE FOR APPLIED RESEARCH IN ELECTRONICS

Post: Design Engineer: Good Bachelor's Degree in Electronics/Electrical Engg. with 2 years' experience in research/design development and production in integrated circuits.

Field of Specialisation: Integrated Circuit Technology.

15. CENTRE FOR RURAL DEVELOPMENT & APPROPRIATE TECHNOLOGY

(a) Post: Assistant Professor/Lecturer/S.S.O. Gr. II

S.S.O. Gr. II: First Class Bachelor's Degree in any field of Engg., Science or Social Science with 2 years' research/industrial experience in any Institute of University standard/Establishment of repute.

Desirable

Asstt. Prof./Lecturer/S.S.O. Gr. II The applicant should preferably have ability and commitment for rural development or development of appropriate technology.

(b) Post: Research Associate/Sr. Research Asstt./Sr. Tech. Asstt: The applicant will be required to work in the area or rural technology.

16. SCHOOL OF MATERIAL SCIENCE & TECHNOLOGY

Post: Professor, SSO Gr. II, Research Associate, Sr. Res. Asstt.

Field of Specialisation

Professor: Building materials such as cement concrete, bricks, composite materials.

S.S.O. Gr. II: First Class B.Tech. in Civil Engg. with 3 years relevant experience or M.Tech. in Civil Engg. with one year relevant experience.

Research Associate: (1) Synthesis of monomers & Polymers (2) Polymer blends and composite (3) Polymer processing structure—property relationship in polymers (4) Thin film technology, infrared and electro optical, acousto-elastic devices (5) Crystal growth and characterisation of materials and solid state electronic devices (6) Building materials.

Senior Research Assistant/Sr. Tech. Asstt.: First Class B.Tech. in Civil Engg. Final year students with outstanding academic record may also apply. Their selection/appointment will be subject to getting a 1st Class Degree.

17. PUBLIC RELATION OFFICER

Qualifications

A Master's Degree with at least a second class either at the Bachelor's or at the Master's level. Diploma in Journalism or Mass Communication with 5 years experience in editing and production of technical and non-technical literature; public relations; organising conferences; seminar/symposia, etc; advertising and publicity. The candidates should have excellent command of the English language, both spoken and written, and have pleasant personality with proven organising abilities.

Desirable

A Bachelor's Degree in Science/Engineering with Diploma in Public Relations/Journalism.

Qualifications may be relaxed in the case of candidates with more than 10 years' experience in the field of editing and production of publications, public relations, advertising and publicity.

In the case of candidates who have a first/second class Diploma in Journalism, second class degree at the Bachelor's/Master's level may not be insisted upon.

18. SECURITY OFFICER

Qualifications

(1) Matric, preferably Graduate (2) Officer for atleast 5 years in military, N.C.C., para military organizations, police or security organisation. (3) Conversant with security procedures and liaison with police.

Note

The post is reserved for Scheduled Caste/Tribes candidates. If suitable SC/ST candidates are not available the post will be treated as unreserved and filled from general candidates, who may also apply.

19. DEPUTY LIBRARIAN

Qualifications

(1) First or Second Class M.A./M.Sc./M.Com. plus First or Second Class B.Lib. Science or Diploma in Library Science. Candidates possessing the degree of M.Lib. Science will be preferred. (2) At least 7 years' experience as

Librarian or in a responsible capacity in a Library. (3) Research experience with publications.

Desirable

Experience should be inclusive of 2 years in handling one or more reprographic facilities and audiovisual equipments like photo-copies, xerox machines, projectors, small offset printing machines etc.

The incumbent will be required to look after the Reprographic Unit in the Library in addition to other usual responsibilities of Deputy Librarian and performing night duty also.

20. WORKSHOP SUPERINTENDENT

Qualifications

(1) Degree in Mechanical Engg. or equivalent (2) Experience of 5 years in a general engineering workshop in a responsible capacity covering, planning, production, estimating administration and control of labour.

Desirable

Teaching experience

Duties: (1) To take charge of training workshop of the Institute comprising Machine shop, Fitting, Foundry, Welding, Carpentry and Sheet Metal Shops etc. etc. (2) Practical training of students and apprentices (3) Maintenance and erection of laboratories and other engineering installations (4) Teaching of subjects related to Production Technology.

21. INDUSTRIAL LIAISON OFFICER (TRAINING & PLACEMENT)

Qualifications

A Good Degree in Science, Engineering, Technology or Management or equivalent with a minimum 10 years' experience in teaching research, training of engineering, personnel, industry or academic administration.

Duties: The incumbent of the post will be responsible for organizing the training & placement activity of the Institute. He would also be responsible to maintain liaison with the Institute alumni and obtain necessary feedback for curricula reevaluation, etc.

22. INDUSTRIAL LIAISON OFFICER (Consultancy)

Qualifications

A Good Degree in Science, Engineering, Technology or Management or equivalent with a minimum of 10 years' experience in teaching, research, industry or academic administration.

Duties: The incumbent of the post will be responsible for organising the industrial consultancy and sponsored research activities of the Institute. In addition he will also look after the planning & development work of the Institute.

General

Prescribed application form as well as a more detailed description of the post may be obtained from the Superintendent (B-1), Indian Institute of Technology, Delhi, New Delhi-110029 either in person or by sending a self-addressed stamped envelope (10x23cm)

bearing postage stamps of 30p. Candidates from abroad may apply on plain paper giving an account of their academic and professional record, reprints and publications and names of at least two persons well acquainted with their professional work. Candidates selected for appointment will be required to join duty immediately or as soon as possible thereafter.

Reservation of posts exists for Scheduled Caste/Tribes candidates, as per Government of India rules, except for the excluded posts of Professor and Assistant Professor.

Last date of receipt of completed applications forms along with attested copies of certificates/testimonials etc. (10 copies of publications) together with a crossed Indian Postal Order for Rs. 7.50 (Rs. 1.87 for SC/ST candidates) for posts at Sl.No. 1 to 16 and Rs. 3/- (Rupee 0.75 for SC/ST candidates) for posts at Sl.No. 17 is 5-5-1979 (19-5-1979 for candidates from abroad).

Persons employed in Govt./Semi-Govt. Organisation/Autonomous Bodies should submit the applications through their employer.

BIDHAN CHANDRA KRISHI VISWA VIDYALAYA

P.O. MOHANPUR, WEST BENGAL

Advertisement No. Apptt./2/79

Applications in prescribed forms are invited for the following posts on the scales mentioned below plus allowances as admissible under the rules of the Viswa Vidyalaya:

A. Reader in Agronomy (Two Posts—
One Post temporary against lien vacancy in the scale of Rs. 1200-50-1300-60-1900/-

Qualifications: Essential

(i) A consistently good academic record with First or high second class (B+) Master's degree in Agronomy following a good degree in Agriculture; (ii) A Doctoral degree in Agronomy; (iii) At least 5 years teaching experience preferably at the post-graduate level; (iv) Capacity to conduct and guide research as evident from published papers.

B. Lecturer in the Department of Agril. Entomology (One Post temporary against a lien vacancy which is likely to be permanent) in the scale of Rs. 700-40-1100-50-1600/-

Qualifications: Essential

(i) A consistently good academic record with 1st or high 2nd Class (B+) Master's degree in Agril. Entomology following a good degree in Agriculture; (ii) A Doctoral degree in relevant subject at (i) or published work of an equally high standard; (iii) At least 2 years experience of teaching/Research.

C. Assistant Soil Chemist (One post—temporary) in the scale of Rs. 700-40-1100-50-1600/-

Qualifications: Essential

(i) A consistently good academic record with 1st or high 2nd class (B+) Master's degree in Soil Science/Agril.

Chemistry following a degree in Agriculture; (ii) At least 2 years Research experience in the field of Soil Science or Agricultural Chemistry; (iii) A Doctoral degree in relevant subject at (i), or published work of equally high standard.

D. Research Assistant (Two posts temporary under the scheme entitled All India Coordinated Potato Improvement Project) in the scale of Rs. 325-15-475-EB-20-575/-

Qualifications: Essential

(i) Consistently good academic record with 1st or high 2nd Class (B+) Master's degree in Plant Breeding and Genetics/Entomology following a degree in Agriculture.

Desirable

Experience in Research on Potato Crops and acquaintance with the agricultural condition in West Bengal.

E. Technical Assistant Grade-III (For preparing a Panel of Selected Candidates for the Faculty of Agriculture) in the scale of Rs. 180-10-210-15-300-EB-20-440/-

Qualifications: Essential

(i) At least a high 2nd class B.Sc. (Ag.) Hons. degree.

F. Technical Assistant Grade III (3 posts temporary) for Basic Science & Humanities in the scale of Rs. 180-10-210-15-300-EB-20-440/-

Qualifications: Essential

(i) A degree in Science with Honours in Chemistry/Botany/Zoology with at least 2 years experience in a Laboratory preferably in an educational institution.

Desirable

For Chemistry—experience in common bio-chemical techniques in an educational Institutions.

G. Junior Dairy Technologist (One post temporary) in the scale of Rs. 300-25-650/-

Qualifications: Essential

A degree in B.Sc. (Dairy Tech.) or B.Sc. with I.D.D. (D.T.)

Desirable

Two years experience in Teaching or Plant work.

H. Junior Dairy Bacteriologist (One post temporary) in the scale of Rs. 300-25-650/-

Qualifications: Essential

A degree in B.Sc. (Dairy Technology) or M.Sc. (Dairy Bacteriology/Microbiology) or B.Sc. (Microbiology) with 2 years experience in any Food Laboratory.

Desirable

Experience in Microbiological Analysis of Dairy/Food Products.

I. Junior Dairy Chemist: (One post temporary) in the scale of Rs. 300-25-650/-

Qualifications: Essential

A degree in B.Sc. (Dairy Technology) or B.Sc. (Chem.) with I.D.D. (D.T.)

Desirable

Two years experience in the Chemical Analysis of Dairy Food Products.

J. Research Assistant (One post temporary under the Scheme entitled All India Coordinated Project on Floriculture) in the scale of Rs. 325-15-475-EB-20-575/-

Qualifications: Essential

Consistently good academic record with a first or high Second class (B+) Master's degree in Horticulture with specialization in Floriculture following a good degree in Agriculture.

Desirable

(i) Two years research experience preferably in ornamental plants; (ii) knowledge of flower cultivation in West Bengal.

Scales of pay for the post at "D" to "J" are unrevised and are likely to be revised.

Age

(i) for post at A—Preferably below 45 years; (ii) for posts at B to C—preferably below 40 years; (iii) for posts at D to J—below 30 years.

Experience and age limit may be relaxable on the recommendation of the Selection Committee in the case of a candidate otherwise qualified. A high initial pay in the scale may be granted on the basis of qualifications, experience and present emoluments.

Application must be submitted in the prescribed form which may be obtained from the Office of the REGISTRAR, BIDHAN CHANDRA KRISHI VISWA VIDYALAYA, P.O. MOHANPUR, DIST. NADIA, WEST BENGAL PERSONALLY OR BY sending a self addressed envelope (25 cm x 12 cm) stamped 0.40 (Forty paise) only on payment of Rupees Eight (Rs. 8.00) for posts at A,B,C,D, & J and Rupees Three (3.00) for posts at E to I only by Crossed Indian Postal Order in favour of the BIDHAN CHANDRA KRISHI VISWA VIDYALAYA. Forms will be available from the Office of the undersigned between 11.00 a.m. and 4.00 p.m. on week days (11.00 a.m. to 1 p.m. on Saturdays). Persons already in employment should apply through proper channel. Candidates abroad may also apply on plain paper with necessary Postal Order. Applications completed in all respects should be submitted in envelope superscribed with the name of the post and must reach THE OFFICE OF THE REGISTRAR BY THE 7th May, 1979.

Candidates called for interview will have to appear for the same at their own cost.

A. K. Mitra
REGISTRAR (Actg.)

MADURAI KAMARAJ UNIVERSITY

MADURAI-625 021

Notification No.3/V/Advt/79

Applications in the prescribed form are invited for the following posts in the Institute of Correspondence Course and Continuing Education of the University.

Department of English
Professor

— One

Department of Political Science

Professor — One
Reader — One
Lecturers — Four

Department of Economics

Professor — One
Lecturers — Six

Department of History

Professor — One
Lecturers — Four

Department of Commerce

Professor — One
Lecturers — Two

Department of Law

Professor — One
Lecturers — Three

Department of Education

Reader in Education — One
Lecturer in Mathematics — One
Lecturer in Tamil — One
Lecturer in English — One
Lecturer in History — One
Lecturer in Economics — One
Lecturer in Political Science — One
Lecturer in Commerce — One
Lecturer in Geography — One

Scale of Pay

Professor — Rs. 1500-60-1800-100-2000-125-2-2500
Reader — Rs. 1200-50-1300-60-1900
Lecturer — Rs. 700-40-1100-50-1603

General Qualifications

Professor

A first or high second class Master's degree and a Ph.D. degree in the subject with not less than 10 years teaching and/or research experience.

Reader

A first or high Second Class Master's degree and a Ph.D. degree in the subject with not less than 5 years teaching and/or research experience.

Lecturer

A first or high Second Class Master's degree and a Ph.D. degree in the subject with not less than 3 years teaching experience.

Preference would be given to Scheduled Caste, Scheduled Tribe candidates who are considered fit in respect of Lecturers.

Appointment of persons on deputation will also be considered, if the candidates are found suitable and the employer is agreeable to spare the services.

The prescribed form of application and full details regarding qualifications and experiences required can be got from the undersigned on requisition accompanied by (1) a self-addressed envelope with postage stamps to the value of Re.1/- affixed thereon and (2) State Bank of India challan for Rs. 5/- (Account No. 1) or Demand Draft for Rs. 5/- payable at Madurai drawn in favour of the Registrar, Madurai Kamaraj University, Madurai-625021.

The last date for receipt of requisition for the prescribed form of applications is 8th May 1979 and the last date for receipt of filled in applications is 15th May 1979. Applications received after the due date will not be considered.

B. Murugan
REGISTRAR

LUCKNOW UNIVERSITY

LUCKNOW-226007

Advertisement No. 6/1979

Applications are invited for the following posts:-

Professor in the Grade of Rs. 1500-60-1800-100-2000-125/2-2500:

1. One Professor of Political Science
2. One Professor in Regional Centre for Research and Training in Municipal Administration, Department of Public Administration.

Qualifications Essential

(1a) A doctorate in the subject of study concerned or a published work of a high standard in that subject; and

(b) Consistently good academic record (that is to say, the overall record of all assessments throughout the academic career of a candidate) with first class or high second class (that is to say, with an aggregate of more than 54% marks) Master's Degree in the subject concerned or equivalent degree of a foreign University in such subject.

Where the Selection Committee is of the opinion that research work of a candidate as evidenced either by his thesis or by his published work, is of a very high standard it may relax any of the qualifications specified in sub-clause (b) of clause 1.

2. Experience of teaching post-graduate classes for not less than seven years and/or having conducted and successfully guided research work for seven years in a recognised Institution and having published work of high standard in the subject concerned.

Preferential

High academic distinctions.

Readers in the Grade of Rs. 1200-50-1300-60-1900

3. One Reader in Anthropology
4. One Reader in Library Science
5. One temporary Reader in Economics (likely to be made permanent)
6. One temporary Reader in Labour Economics, Deptt. of Economics (likely to be made permanent)
7. Two temporary Readers in Law (likely to be made permanent)
8. One temporary Reader in Commercial Law (likely to be made permanent)

Qualifications (for posts nos. 3 to 6)

Essential

(1a) A doctorate in the subject of study concerned or a published work of a high standard in that subject; and

(b) Consistently good academic record (that is to say, the overall record of all assessment throughout the academic career of a candidate) with first or high second class (that is to say, with an aggregate of more than 54% marks) Master's Degree in the subject concerned or equivalent degree of a foreign University in such subject.

Where the Selection Committee is of the opinion that the research work of a candidate, as evidenced either by his thesis or by his published work is of a very high standard, it may relax any of the qualifications specified in sub-clause (b) or clause 1.

2. Experience of teaching honours/

post-graduate classes for not less than five years and published research work of high standard in the subject.

Preferential

Experience of teaching post-graduate classes and guiding research.

Qualifications (for posts nos. 7 & 8)

Essential

First or high second class Master's degree and Doctorate in the subject concerned with a good academic record and experience of teaching honours/post-graduate classes for not less than five years and published work of high standard in the subject.

Preferential

Experience of teaching post-graduate classes and guiding research.

Note

The essential degree qualifications for the posts of Readers in the Faculty of Law shall be deemed to be satisfied if the candidate holds LL.M. Degree.

Ability to teach LL.B. classes through the medium of Hindi essential.

Lecturers in the Grade of Rs. 700-40-1100-50-1600

9. Two temporary Lecturers in Public Administration (likely to be made permanent)
10. One temporary Lecturer in Geology (likely to be made permanent).

Qualifications: Essential

(a) A doctorate in the subject of study concerned or published work of a very high standard in that subject; and

(b) Consistently good academic record (that is to say, the overall record of all assessments throughout the academic career of a candidate) with first class or high second class (that is to say, with an aggregate of more than 54% marks) Master's Degree in the subject concerned or equivalent degree of a foreign University in such subject.

Where the Selection Committee is of the opinion that the research work of a candidate, as evidenced either by his thesis or by his published work, is of a very high standard, it may relax any of the qualifications specified in sub-clause (b) supra.

Preferential

Experience of teaching degree/honours/ post-graduate classes for two years.

General

For purposes of qualifications required for the above posts, the degree obtained in a subject taught in a Department which is subsequently constituted into separate Departments shall be deemed to be degree in the subject concerned for the newly constituted Departments.

Benefits of Provident Fund available as admissible under the rules on confirmation for permanent posts. Period of probation for permanent posts is one year. It is not necessary to fill any/all of the advertised posts.

For the posts of Lecturers, other things being equal preference will be given to Scheduled Castes/Tribes candidates, who are considered fit. Such candidates should indicate in their applications that they belong to Scheduled Castes/Tribes, attaching certificate from

the District Magistrate of the District to which they belong. No other certificate for this purpose will be entertained. In case of Scheduled Caste/ Scheduled Tribe candidates interviewed by the Selection Committee, if suitable candidates are not available for appointment to the posts of Lecturers, the Selection Committee, may recommend appointment of suitable candidate as Research Associate in the scale of Rs. 700-1300 for a period of three years and these persons could later compete for the posts of Lecturers as and when vacancies occur.

Applications on the prescribed form (available on request, accompanied with a self-addressed envelope of size 23 cm x 10 cm, free of cost, from the Registrar), with recent testimonials, publications etc. should reach Office of the Registrar, Lucknow University, by Tuesday, May 15, 1979. The candidates who are in service must send their applications through proper channel. Application Forms to outstation candidates will be issued by post upto May 8, 1979.

REGISTRAR

INDIAN INSTITUTE OF TECHNOLOGY: DELHI

HAUZ KHAS, NEW DELHI-110029

CORRIGENDUM

Reference: Advertisement No. 10/79

The Field of Specialisation in the above mentioned advertisement of this Institute under the Department of Chemistry for the post of Lecturer may be read as given below:

Field of Specialisation

Bio. Inorganic, Organic, Polymer and Physical Chemistry.

Last date for receipt of completed application form for the above post will be 10-5-79 (24-5-79 for candidates from abroad)

KURUKSHETRA UNIVERSITY

KURUKSHETRA

Advt. No. 4/79

Applications are invited for the following posts:

1. Professors in (Ancient Indian History Cul. & Arch (1), History (1), Mathematics (2), Education (1), Rs. 1500-60-1800-100-2000-125/2-2500.
2. Readers in Sanskrit, Philosophy, Botany, Zoology, Political Science Punjabi, Mathematics, English (one each). Rs. 1200-50-1300-60-1900.
3. Lecturers in (Ancient Indian History (1), Management (1), Rs. 700-40-1100-50-1600.
4. DPE (1) (For University College). Rs. 350-25-450/30-600.
5. ADPE (For University Teaching Departments). Rs. 300-25-450/25-600.

Qualifications

For the post of Professor

An eminent scholar with published work of high quality, actively engaged

in research. Ten year's experience of teaching and/or research. Experience of guiding research at Doctoral level.

OR

An outstanding scholar with established reputation who has made significant contribution to knowledge.

For the post of Readers

Good academic record with a Doctoral degree or equivalent published work. Evidence of being actively engaged in research. At least 5 years' experience of teaching preferably of postgraduate classes.

This condition may be relaxed in the case of candidates with outstanding research work.

For the post of Lecturers

(a) A Doctor's Degree or research work of an equally high standard; and

(b) Consistently good academic record with 1st or high 2nd class (B in the seven point scale). Master's degree in a relevant subject or an equivalent degree of a foreign University.

Having regard to the need for developing inter-disciplinary programmes, the degrees in (a) and (b) above may be in the relevant subjects.

Provided that if the Selection Committee is of the view that the research work of a candidate as evident either from his thesis or from his published work is of very high standard, it may relax any of the qualifications prescribed in (b) above.

Provided further that if a candidate possessing a Doctor's Degree or equivalent research work is not available or is not considered suitable, a person possessing a consistently good academic record (weightage being given to M.Phil. or equivalent degree or research work of quality) may be appointed provided he has done research work for at least two years or has practical experience in a research Laboratory/Organisation on the condition that he will have to obtain a Doctor's degree or give evidence of research work of equivalent high standard within five years of his appointment failing which he will not be able to earn future increments until he fulfils these requirements.

For the post of DPE (For University College) and Assistant Director of Physical Education (University Teaching Departments):

At least 2nd class Master's degree in Physical Education of an Indian University or an equivalent qualification of a foreign University in Physical Education or Master's degree in any Arts/Science subject with at least 2nd class Diploma in Physical Education. The candidates should have three years' experience, relaxable in suitable cases.

Specialisation required for the following posts:

Professor in History: Medieval Indian History.

Professors in Mathematics: (i) Mechanics of Solids; (ii) Applied/Pure Mathematics.

Reader in Mathematics: Numerical Analysis/Computer Arithmetic/Computer Software (Preference will be given to those who can teach digital computer fundamentals and machine/assembly

languages of systems TDC-316 & TDC-12.

Reader in Political Science: State Politics with special reference to Haryana.

Reader in English: Some area of late nineteenth or twentieth Century American Literature.

Lecturers in Mathematics: Applied/Pure Mathematics/Operations Research/Numerical Analysis/Computer Science/Mathematical Statistics.

Lecturers in Education: (i) Economics of Education & Educational Finance; (ii) Educational Technology.

Lecturer in Management: Financial Management & Accounting/Production Management.

Note

Candidates having experience in the Industry, Business or Govt. in an administrative/managerial capacity for one or more years will be preferred.

Knowledge of Hindi desirable. Usual allowances, PF etc. admissible as per University Rules. In case of Lecturers and non-teaching posts 20% and 2% posts are reserved for Scheduled Castes and Backward Classes respectively, but in the case of non-teaching posts 30% posts are reserved for Ex-Servicemen also. However, if suitable candidates for these reserved posts are not available, these shall be treated as unreserved.

Applications (through proper channel) for those in employment on the prescribed form obtainable from the Assistant Registrar (Estt.) Kurukshetra University, Kurukshetra for posts at Sr. Nos. 1, 2 & 3 and on plain paper for the posts at Sr. Nos. 4 & 5 along with attested copies of certificates/testimonials and accompanied by Crossed Indian Postal Orders for Rs. 7-50 drawn in favour of the Registrar, Kurukshetra University, Kurukshetra and payable at the University Post Office should reach the Assistant Registrar (Estt.) on or before 15-5-1979. Ex-Servicemen are exempted from application fee.

REGISTRAR

ALIGARH MUSLIM UNIVERSITY ALIGARH

Advertisement No. 1/79-80

Applications, on the prescribed form, are invited for the following posts:

1. Professor of Electrical Engineering (Plan Post), Scale Rs. 1500-60-1800-100-2000 1/25/2-2500 plus allowances.

Qualifications

A first or high second class Basic Degree in Electrical Engineering. Ordinarily post-graduate Degree in Electrical Engineering. Ordinarily ten years' experience of which five years' should be in a position of responsibility in teaching in an Engineering Institution of a degree standard and/or research.

Desirable

Published research work. Specialisation in Communication Engineering.

2. Professor of Law (Temporary) Scale - Rs. 1500-60-1800-100-2000-125/2-2500 plus allowances.

Qualifications: Ordinarily required

(a) A first or high second class Master's Degree in Law of an Indian University or equivalent foreign qualification; (b) Research Degree of a Doctorate standard or published work of a high standard; and (c) At least ten years' experience of teaching post-graduate classes and guiding research.

3. Reader in Law (Temporary) Scale Rs. 1200-50-1300-60-1900 plus allowances.

Qualifications: Ordinarily required

(a) A first or a high second class Master's Degree in the subject concerned of an Indian University or an equivalent foreign qualification; (b) A research degree of a doctorate standard or published work of a high standard; and (c) At least five years experience of teaching postgraduate classes and some experience of guiding research.

Prescribed application form and instructions may be had from the Dy. Registrar (Ex.) either personally or by sending a self addressed envelope of 23 x 10 cm. Last date for receipt of applications is 17th May 1979. Incomplete applications and those received late may not be considered.

Higher initial start may be given to candidates possessing exceptional qualifications and experience. Candidates interviewed may be paid contribution towards their T.A. equal to one single Second Class Railway fare only.

**Jamalur Rahman
REGISTRAR**

BIDHAN CHANDRA KRISHI VISWA VIDYALAYA

P.O. MOHANPUR, WEST BENGAL

Advertisement No. Appt/3/79

Applications are invited in prescribed forms for the following posts in the North Bengal Campus of the Viswa Vidyalaya at Cooch-Behar in the scale mentioned below with the benefits of D.A. and other allowances as admissible under the rules:

A. Professor-in-Charge: (One Post) in the scale of Rs. 1500-60-1800-100-2000-125/2-2500

Qualifications: Essential

(a) Consistently good academic record with First or high second class (B+) Master's degree in any branch of Agri Science or science basic to Agriculture or recognised equivalent qualifications (e.g. Assoc. I.A.R.I.) following a good Bachelor's degree;

(b) A Doctoral degree in relevant subject as (a) above;

(c) At least 10 years' experience of teaching preferably at Post-graduate level;

(d) Demonstrated capacity of leadership in the field of academic administration in a University/Institute for at least 5 years preferably in an Agricultural College/University;

(e) Knowledge of Agriculture and Agricultural conditions in the country, preferably in the State of West Bengal.

Age: Preferably below 50 years.

B. Reader (10 Posts)—one post each for (i) Agronomy, (ii) Horticulture, (iii) Genetics & Plant Breeding, (iv)

Agri. Entomology; (v) Plant Pathology (vi) Agri. Chemistry & Soil Science, (vii) Agri. Extension, (viii) Agri. Engineering, (ix) Agri. Economics, (x) Agriculture Statistics: in the scale of Rs. 1200-50-1300-60-1900.

Qualifications: Essential

(a) Consistently good academic record with 1st or high 2nd class (B+) Master's Degree in Agronomy/Horticulture/Genetics and Plant Breeding/Agri. Entomology/Plant Pathology/Agri. Chemistry & Soil Science/Agri. Extension/Agri-Engineering/Agri. Economics/Agri. Statistics or recognised equivalent qualifications (e.g., ASSOC. IARI) with specialization as given below for each following degree in Agriculture. Field of Specializations in any branch of the relevant subject mentioned.

(a) above

(b) A doctoral degree in relevant subject at (a) above;

(c) Five years experience of teaching preferably at post-graduate level;

(d) Capacity to conduct & guide Research as evident from published papers.

Age: Preferably below 45 years

C. Lecturer: (10 Posts)—One post each for (i) Agronomy; (ii) Horticulture (iii) Genetics & Plant Breeding; (iv) Agri. Entomology; (v) Plant Pathology; (vi) Agri. Chemistry & Soil Sc.; (vii) Agri. Extension; (viii) Agri. Engineering; (ix) Agri. Economics; (x) Agri. Statistics in the scale of Rs. 700-40-1100-50-1600.

Qualifications: Essential

(a) Consistently good academic record with 1st or high 2nd Class (B+) Master's Degree in Agronomy/Horticulture/Genetics & Plant Breeding/Agri. Entomology/Plant Pathology/Agri. Chemistry & Soil Science/Agri. Extension/Agri-Engineering/Agri. Economics/Agri. Statistics or recognised equivalent qualifications (e.g., ASSOC. IARI) following a degree in Agriculture;

(b) At least two years' experience of teaching/research;

(c) A doctoral degree in relevant subject at (a) above or published work of an equally high standard.

Age: Preferably below 40 years.

D. Lecturer in Animal Production and Management (one post) in the scale of Rs. 700-40-1100-50-1600.

Qualifications: Essential

(a) Consistently good academic record with 1st or high 2nd Class (B+) Master's degree in Animal Breeding/Animal Nutrition/Animal Production & Management following a degree M.V.Sc. and A.H./B.Sc. (Ag.)

(b) A doctoral degree in relevant subject at (a) above or published work of an equally high standard;

(c) At least two years experience of teaching/research.

Age: Preferably below 40 years.

E. Technical Assistant Grade-III (For preparing a panel of Selected Candidates) in the scale of Rs. 180-10-210-15-300-EB-20-440/- (Unrevised—likely to be revised).

Qualifications: Essential

(i) At least a high second class B.Sc. (Ag.) Hons. Degree.

Age: Below 30 years.

Qualifications for posts at "C" and "D" are relaxable in the case of candidates who are otherwise exceptionally qualified.

Experience and age limit may be relaxable on the recommendations of the Selection Committee in the case of a candidate otherwise qualified. A higher initial pay in the scale may be granted on the basis of qualifications, experience and present emoluments.

Selected candidates will be required to reside at Cooch-Behar.

Applications must be submitted in the prescribed form which may be obtained from the Office of the Registrar, Bidhan Chandra Krishi Viswa Vidyalaya, P.O. Mohanpur, Dist Nadia, West Bengal personally or by sending a self addressed envelope (25cm x 12cm) stamped 0.40 (Forty paise) only on Payment of Rupees Eight (8.00) for posts at 'A', 'B', 'C' & 'D' and Rupees Three (Rs. 3.00) for post at 'E' only by crossed Indian Postal Order in favour of the Bidhan Chandra Krishi Viswa Vidyalaya. Forms will be available from the Office of the undersigned between 11.00 am to 4.00 p.m. on week days (11.00 a.m. to 1.00 p.m. on Saturdays). Persons already in employment should apply through proper channel. Candidates abroad may also apply on plain paper with necessary Postal Order. Applications completed in all respects should be submitted in envelope superscribed with the name North Bengal Campus along with the post and must reach the Office of the Registrar by the 18th May 1979.

Candidates called for interview will have to appear for the same at their own cost.

A.K. Mitra

REGISTRAR (Actg.)

OSMANIA UNIVERSITY

HYDERABAD - 500 007

Advertisement No. 8/1979

Applications, in the prescribed form

together with the registration fee of Rs 5/- are invited for the following posts in the University Service, so as to reach the undersigned on or before 14-5-1979. Readers in Education/Mathematics & Geology : Rs 1200-50-1300-60-1900 Lecturers in Geology/Marathi/Genetics/Law and Linguistics: Rs 700-40-1100-50-1600.

Age: Readers—Not more than (40) years Lecturers—Not more than (35) years.

Note: 1. Age limit does not apply to the employees of this University.

2. Relaxation in age to the extent of five years may be granted to candidates belonging to SCs, STs, and B.C., respectively in the case of Lecturers only

3. Age relaxation can be considered in deserving cases.

14%, 4% and 25% reservations are made for Scheduled Castes, Scheduled Tribes and Backward Classes respectively in case of Lecturers only.

Application forms can be had from the Director, Department of Publications and University Press, Osmania University, Hyderabad-500 007, A.P. on payment of Rs. 4.50 in person or by money order or by a postal order UNCROSSED made payable to the Director and by sending a self-addressed envelope (14 x 26cms.) duly stamped for ordinary or registered post.

A latest passport size photograph should be fixed on the application form. No original certificates should be enclosed to the application form.

Full particulars can be obtained on requisition from the Director, Osmania University Press, free of cost, by sending a self-addressed stamped envelope.

B. Ramchandra Reddy
REGISTRAR

THE UNIVERSITY OF KASHMIR

SRINAGAR-190006

No: F.10(App.Gen)KU/Adm/79

Notice

Applications in the prescribed forms are invited for the following posts which should reach the under-signed by or before 21st May, 1979 :

Sl. No.	Department	POSTS		
		Professor	Reader	Lecturer
1.	Physics	One	One	—
2.	Central Asian Studies	—	One	—
			(Sanskrit)	—
3.	Geography	—	One	—
4.	Iqbal Institute	—	One	One
5.	Mathematics	—	One	One (Temp.)
6.	Persian	—	—	Three
				(Including two temp. (likely to become permanent))
7.	Political Science	—	One	—
8.	Zoology	—	One	—

The prescribed application forms can be had from the Registrar, University of Kashmir, Srinagar, on cash payment of Rs. 6/- or by sending a crossed Postal Order drawn in favour of the Registrar cashable at Srinagar Post Office alongwith a self addressed envelope (5" x 11") with the necessary postage stamps.

While making a request for the application forms, candidates are advised in their own interest to send their detailed curriculum vitae.

The details in respect of essentials and desirable qualifications for the posts can be had from the office of the under-signed.

Peerzada Gh. Hassan
DEPUTY REGISTRAR
(Administration)

JAWAHARLAL NEHRU UNIVERSITY

NEW DELHI-110067
Advt. No. Aca. IU/6/79

Applications are invited for the position of Professor in Educational Studies in the Zakir Husain Centre for Educational Studies against a leave vacancy for a period of one year in the first instance.

Qualifications: Essential

1. Consistently good academic record with at least a high second class master's degree in Social Sciences or an equivalent qualification from an Indian/foreign University;
2. A Doctor's Degree or published work of an equally high standard in a field which should be relevant to the area of Educational Studies;
3. About 10 years' experience of teaching and/or research in a field which should be relevant to the area of Educational Studies.

Desirable

1. Master's degree in Economics or Sociology or Psychology or History;
2. Ph.D. in an area of Educational Studies or a Ph.D. in Economics or Sociology or Psychology or History with professional experience at sufficiently high levels in Educational Administration or Educational Planning;
3. Evidence of high proficiency in handling mathematical and/or quantitative analysis; and
4. Evidence of having successfully guided doctoral work.

Relaxation in any of the qualifications may be made (a) in favour of persons of eminence or of high academic/professional distinction, and (b) in exceptional cases where adequately qualified persons are not available but are otherwise found suitable for the position. It will also be open to the University to consider the names of suitable candidates who may not have applied.

The selected candidates for faculty position will be expected to participate in the teaching and research programmes in the concerned discipline in other Schools of the University as well as in the programmes offered in their own Centres of Studies.

Persons already in employment should route their applications through proper channel.

Applications on the prescribed form, obtainable free of cost from the University by sending a self addressed and stamped envelope of 23 x 20 cm size to the Deputy Registrar (Academic) Jawaharlal Nehru University, New Delhi-110067 should reach him latest by 11.5.1979.

Candidates from abroad, applying for faculty position, may apply on plain paper (but their applications should reach the University by the last date) furnishing all the relevant information such as their names; date and place of birth; marital status; nationality; state of domicile; postal and permanent addresses; father's name and address; academic and professional attainments; details of (a) publications, and (b) research projects undertaken; language(s) known; details of visits to foreign countries; and the names and addresses of at least two persons well acquainted with the candidates profes-

sional work who should also be requested by the candidates to forward to the Deputy Registrar (Academic) confidential report concerning the candidates.

UNIVERSITY OF INDORE

UNIVERSITY HOUSE
INDORE-452 001.

No. Estt./III(5)/79 Dated: April 79.

Advertisement

Applications are invited for the post of Controller, University Printing Press in the pay scale of Rs. 700-50-1250/- Dearness and other Allowances and benefit of Provident Fund will be admissible according to the University Rules.

Essential Qualifications

- (a) Second class Bachelor's degree in Arts, Science, Commerce or Engineering and also Diploma in Printing and allied Trades from a recognised technical institution/School/College of Printing in India;
- (b) At least 7 years experience in a responsible Supervisory capacity on a scale of pay not lower than Rs. 350-600/- in a printing press having modern mechanical composing, automatic printing machine etc.
- (c) Thorough knowledge of hand and mechanical composing, printing, machine minding, binding, and all branches of printing trade knowledge of copy fitting, manuscript, editing, types, preparation of layout and display etc.
- (d) Must have good knowledge of Hindi and English.

Age: Preferably below 50 years.

Note

- (i) Candidates with outstanding record of Press Management and/or as practising printers with conspicuous success in their line can be considered for exemption from the Diploma in Printing Technology.
- (ii) Candidates with outstanding technical qualifications and experience can be considered for relaxation in the requirement of academic qualifications shown at 2(a) above.

A higher initial start may be given to a candidate with higher qualifications and experience. Preference will be given to Scheduled Caste and Scheduled Tribe candidates if found suitable. Candidates already in service should apply through proper channel.

Applications may be made on plain paper giving full particulars of all examinations passed alongwith copies of Mark-sheets and Certificates of experience together with a Crasped Postal Order of Rs. 7/-, payable to the Registrar, University of Indore, Indore so as to reach the undersigned not later than 26.5.1979. The envelope should be marked "Application for the post of Controller, University Press."

Those candidates who had applied in response to our Advertisement No. Estt./III(i)/75-77 dated 21st September 77 need not apply again. They should however intimate to the University on or before 26.5.1979 their desire for consideration of their candidature for the said post.

The University reserves the right to fill-up or not to fill-up the post and

or to call only selected candidates for interview at their own cost.

A.G. Sharma
REGISTRAR

S.N.D.T. WOMEN'S UNIVERSITY

1, Nathibai Thackersey Road
BOMBAY-400 020

Applications are invited on prescribed forms available from the University Office on payment of Rs. 5- (by M.O. or cash) for the following posts to be filled in at the Leelabai Thackersey College of Nursing, Bombay-20, so as to reach the undersigned before May 21, 1979.

	Medium	No. of Posts
1. Lecturer in Nursing	English	Three
2. Assistant Lecturer in Nursing	English	One

Qualifications

1. Lecturer

(i) A Doctor's degree preferably in Nursing or behavioural Science or Education or published work of an equally high standard; OR a M.Phil. Degree.

(ii) Consistently good academic record with first or high second class (B+) at Master's Degree and Bachelor's Degree in Nursing Education or Community Health Nursing or Obstetrics or equivalent Degree of a foreign University.

(iii) A person with teaching experience of 5 years or more will be preferred.

Note: Provided that if a candidate possessing the qualifications as at (i) above is not available or not considered suitable the college, on the recommendation of the Selection Committee may appoint a person possessing a consistently good academic record on the condition that she will have to obtain an M.Phil. Degree or a recognised degree beyond the Master's level within five years of her appointment, failing which she will not be able to earn future increments till she obtains that degree or gives evidence of equivalent published work of high standard.

2. Assistant Lecturer

(i) Bachelor's Degree in Nursing.
(ii) One year's experience of teaching in a school or a college of Nursing or two year's experience in a hospital or Community Health Nursing field.

(iii) Candidate should be registered under Maharashtra Nurses Act, 1966 or at least be eligible for the registration.

Salary Scales

Lecturer : Rs. 40-40-800-50-950 plus admissible allowances per month (Total initial emoluments about Rs. 950/- per month)

Assistant Lecturer : Rs. 250-15-400 plus admissible allowances (Total initial emoluments about Rs. 70/- per month)

Note

- (a) Only suitable candidates will be called for interview.
- (b) Other things being equal, preference will be given to candidates from Scheduled Castes Scheduled Tribes, Other Backward Communities.
- (c) Higher start in the scale will be considered in special cases.

(Smt.) Kamalini H. Bhansali
REGISTRAR

S.N.D.T. WOMEN'S UNIVERSITY1. Nathibai Thackersey Road
Bombay-400020

Applications are invited on prescribed forms available from the University Office on payment of Rs. 5/- (by M.O. or cash) for the following posts to be filled in at the Colleges conducted by the University at Bombay and Poona, so as to reach the undersigned before May 21, 1979.

I. Sir Vithaldas Thackersey College of Home Science, Bombay.
A. Post-Graduate Department

	Medium	No. of Posts
1. PROFESSOR IN		
Child Development	English	One
2. READER IN		
(a) Textile & Clothing.	English	One
(b) Foods & Nutrition	English	One
B. College Level		
LECTURER IN		
(1) Education & Extension.	English	One
(2) Textile & Clothing	English	Two
II. S.N.D.T. College of Home Science, Poona		
LECTURER IN		
(1) Foods & Nutrition	English, Marathi	One Post for each subject
(2) Textile & Clothing		
(3) Child Development		
III. P.V.D.T. College of Education for Women, Bombay		
LECTURER IN EDUCATION		
(1) Specialization in History & Maths., or Geography or Hindi	Gujarati	One
(2) Specialization in Hindi & Maths., or Geography or History	Gujarati	One
IV. S.N.D.T. College of Education for Women, Poona		
LECTURER IN EDUCATION	Marathi	Five

Qualifications
PROFESSOR

An eminent Scholar with published work of high quality actively engaged in research—ten years experience of teaching and/or research in the subject concerned—experience of guiding research at doctoral level.

OR

An outstanding scholar with established reputation who has made significant contribution to knowledge.

READER

Good academic record at Bachelor's and Master's level in the subject concerned, at least with first or high second class, with a doctoral degree or equivalent published work in the subject concerned. Evidence of being actively engaged in (i) research or (ii) innovation in teaching methods or (iii) production of teaching materials, 5 years experience and/or research provided that at least 3 of these years were as lecturer or in an equivalent position. The condition may be relaxed in the case of candidates with outstanding research work.

LECTURER

(a) Consistently good academic record with at least first or high second class at the Master's level in the subject concerned or an equivalent degree of a foreign University; and

(b) An M.Phil. degree or a recognised degree beyond the Master's level or published work indicating the capacity of a candidate for independent research work.

Notes

(1) Provided that if the Selection Committee is of the view that the research work of a candidate as evident either from his/her published work is of

very high standard, it may relax any of the qualification prescribed in (a) above.

(2) Provided further that if a candidate possessing the qualifications at (b) above is not available or not considered suitable the college, on the recommendation of the Selection Committee may appoint a person possessing a consistently good academic record on the condition that he/she will have to obtain an M.Phil. Degree or a recognised degree beyond the Master's level within five years of his/her appointment, failing which he/she will not be able to earn future increment until he/she obtains that degree or gives evidence of equivalent published work of high standard.

Salary Scales**Professor**

Rs. 1500-60-1800-100-2076-125-2-3500 plus admissible allowances (Total initial emoluments about Rs. 2,000/- per month)

Reader

Rs. 1200-50-1300-60-1900 plus admissible allowances (Total initial emoluments about Rs. 1700/- per month)

Lecturer

Rs. 700-40-1100-50-1300-Assessment-50-1600+admissible allowance (Total initial emoluments about Rs. 1100/- per month)

Notes

(a) Only suitable candidates will be called for interview.

(b) Other things being equal preference will be given to candidates from Scheduled Castes/Scheduled Tribes/Other Backward Communities.

(c) Higher starting salary may be considered in exceptional cases.

(d) Work specification of Posts (IA) and IV be collected with the application forms.

Smt. Kamalini H. Bhansali
REGISTRAR

KUMAUN UNIVERSITY
NAINITAL.

Advertisement No. 132 Dated 18.4.1979

Applications are invited for the following temporary posts (clear vacancies) likely to become permanent in due course. The number of posts, in brackets, and the required field of specialization, if any, are indicated in each case. Hill Development allowance of Rs. 100/- and dearness allowance as admissible under university rules, will also be payable.

Professors: (Rs. 1500-2500) One each in Economics, Hindi, Political Science, Sociology, Zoology (Entomology), Chemistry, Commerce and Law.

Readers: (Rs. 1200-1900) — One each in English, History (Ancient Indian History or Archeology), Sanskrit, Chemistry (Inorganic/Organic/Physical) with the proviso that the Reader will belong to a branch different from that of the Professor.

Lecturers: (Rs. 700-1600) Drawing & Painting (1); Economics (1); English (8).

Mathematics: (3) — Complex Variables, Modern Algebra, Topology, Differential Geometry, Numerical Analysis, Number Theory.

Hindi: (5) — Bhasavagyan Ritikalin Sahitya Lok Sahitya Madhyakalin Sahitya Prachin Sahitya Sanskrit.

Tourism: (1) — M.A. in Geography, Ancient or Medieval Indian History, Archeology, Economics; experience of tourism as a trade in an official or non-official travel agency.

Preferable: Ph.D. degree and/or Diploma in Tourism.

Qualifications

(1) Consistently good academic record with at least a high second class at Master's level.

(2) Doctorate degree and/or published work of high standard.

(3) At least 10 years experience of teaching post-graduate classes and/or of post Ph.D. research for Professors and 5 years for Readers.

Further details regarding qualifications and service terms will be provided with the application form. Reservation for S.T.S.C. candidates as per normal rules.

Prescribed application forms available from the Registrar, Kumaun University, Nainital-263001 on payment of postal charges etc. of Rs. 4/- by crossed Postal Order Bank Draft (but not money order) payable to Finance Officer, Kumaun University, along with self addressed envelope of size 23 x 10 cm.

Last date for receipt of applications is Thursday, May 31, 1979. Applications received after 31.5.79 will not be entertained.

Candidates who have already applied for any of these posts in February, March 1979 need not apply again.

REGISTRAR